antarctic
journal OF THE UNITED STATES

Index to Volume XI (1976)

Antarctic Journal of the United States

Volume XI INDEX 1976

National affiliations that appear in parentheses are not parts of official names. *Italicized* page numbers indicate illustrations or tables. Names that appear only in personnel lists or as references are not indexed.

—A—

Abele, Lawrence G., 168
Abregu, Angel, 153
Abyssal plains, 235
Ackley, Stephen F., 197
Accohoucus sp., 167
Acodentaster spp., 51, 52
Actinocyclus sp., 81
Adamussium sp., 84, 86-88
Addison, F., 187
Adelaide Island, 23, 56, 97-98
  research, 24, 53-54, 102-103
  temperature, 152
Adélie Coast, 37
Adenocystis sp., 14, 15
Adenosine triphosphate, 186
Admiralty Sound, 222, 223
ADRAMS, 101
Aerial photography, 98, 106, 141-*142*, *191*, 216, 241, 242
  (*See also*: Satellites.)
Aerosols, *91*, 99-101, 195, 200, 202
Age determination, 86-88, 174, 199, 203, 204, 234, 241, *257*-258, 259, 267, 273, 274, 294
  (*See also*: Carbon-14.)
Ages
  Albian, 170
  Aptian, 170
  Brunhes, 163, 174
  Cambrian, 246
  Cenomanian, 170
  Cenozoic, 79, 84, 169, 173-174, 195, 246, 277, 294
  Cretaceous, 93-94, 169, 222, 258
  Eocene, 168, 169, 173, 174, 176
  Holocene, 30, 71, 87, 169-170, 203
  Jurassic, 75, 167, 168, 169-170, 240, 253, 257, 259, 288
  Maestrichtian, 169, 170
  Matuyama, 174
  Mesozoic, 72, 82, 169, 193, 240, 246, 293
  Miocene, 81, 86, 174, 175, 176, 272
  Neocomian, 170
  Neogene, 71, 174, 175, 176
  Oligocene, 169, 174, 176, 269
  Oxfordian, 167-168, 170
  Paleocene, 174
  Paleogene, 169, 176, 178
  Paleozoic, 82, 193, 293
  Phanerozoic, 293
  Pleistocene, 72, 79, 81, 82, 84, 86, 273, 276
  Plio-Pleistocene, 79
  Pliocene, 81, 86, 163, 171-172, 173, 174, 269, 273
  Precambrian, 260-263, 293
  Quaternary, 166, 173, 174, 177-178, 241, 269
  Recent, 72, 79, 163, 165, 175, 177, 273
  Santonian, 170
  Tertiary, 72, 73, 169, 222, 259
  Triassic, 240
  Turonian, 170
Agriculture, U.S. Department of, 196
Ainley, David G., 66, 189, 194
Air-Droppable Random Access Measurement System (ADRAMS), 101
Air Force, U.S., 108
Aircraft
  accidents, 37, 47, 95, 105, *106*, *107*, 110, 213
  operations, *103*-107
  ski-equipped, 38-39, 95, 105, 212
  (*See also*: Airplanes.)
Airglow, 201
Airplanes
  Army Air Force, 216
  Beechcraft C-45, 216
  Curtis-Wright Condor biplane, 213
  C-141, 67, 108
  LC-130, 95, 97
  LC-130F, *38*
  LC-130 Hercules, 294
  LC-130R, 37, 39
  Twin Otter, 95, 97, 98, 198
  (*See also*: Antarctic Development Squadron Six.)
Akasofu, Syun-Ichi, 41, 141, 201
Alaska Outer Continental Shelf, 285
Alaska, University of, 41, 138, 141, 148, 151, 193, 195, 201, 202, 207
Albian age, 170
Alexander, Vera, 193
Alexander I Island, 212
Alexander Island, 212, 215, 218, 226
Algae, 14, 15, 20-26, 28, 190-191, 193-194, 204, 220, 221, 224, 234, 292
  research summarized, *22*, *23*
  (*See also*: Macroalgae.)
Alkalinity, 274
Allen, Richardson, 75
Almirante Brown station (Argentina), 102-105
Alpacas, 216
Alpine Geophysical Associates, Inc., 52
Aluminum, 148, 149, 242, 249
Amauropsis sp., 224, 225
American Bay, 185
American Geographical Society, 192
American Geophysical Union, 192, 206
Amery Ice Shelf, 36, 235
Ammonia, 18
Ammonium, 191
Ampelisica sp., 25
Amphibole, 259
Amphibolite, 241, 242
Amphipods, 14, 15, 24, 25, 54, 224
Amphitrite sp., 24, *25*
Amsterdam Island, 186
Amundsen abyssal plain, 235
Amundsen Basin, 232
Amundsen Sea, 42
Amundsen-Scott South Pole Station, 39, 69, 91, 204, 294
  aircraft operations, 106
  climate summary, 294, inside back cover of each issue
  computers, 285
  contractor support activities, 42, 110
  geodesic dome, 98
  last flight of season, 107
  research, 47, 67-68, 80, 99-101, 130, 136, *140*-141, *143*-144
  sky cover, 207
  supplies, 106-107
  temperature, 116, 207, 294
  topographic mapping, 97-98
  USARP activities (1976-1977), 195, 198, 201-203
  wintering personnel, 67-68, 98, 99, 201-202
    listed (1976), 204-205
Andalusite, 242
Anderson, Duwayne M., 112, 249, 282
Anderson, George C., 154, 156
Anderson, John B., 288
Andes Mountains, 93-94, 193
Andesite, 267
Anemones, 16, 59
Angamos (Chile), 215
Angle, J. Phillip, 226
Animals, marine, 14-20
  (*See also*: Mammals.)
Annelids, 224
Anomalies, 276
Antarctic Archipelago, 231
Antarctic Bibliography, 47, 292-293
Antarctic Bottom Water, 30, 33, 70-73, 75, 165-167, 172, 228, 235-239
Antarctic Circle, 35
Antarctic Circumpolar Current, 154-159, 174
Antarctic Convergence, 173, 174, 185, 226
Antarctic Development Squadron Six, 38, 47, 97, 105-107, 112, 294
  command changed, 39

Antarctic Geology and Geophysics Symposium, 75
Antarctic Intermediate Water, 154-159
Antarctic Map Folio Series, 192
Antarctic Marine Geology Research Facility—*see* Florida State University
Antarctic Peninsula, 27, 42, 54, 57, 94-95, 111, 155, 184
penguin rookery, 66
research, 12-24, 102-103, 110, 152, *211*-219, 220-222, 258-259
maps, *13*, *76*
topographic mapping, 97-98
USARP activities (1976-1977), 193-194
(*See also*: East Base; Seymour Island.)
Antarctic Research program, U.S., 97-98, 104-111, 114, 192, 270
activities (1975-1976), 47-111, 220-291
funded, 41
projects (1976-1977), 193-204
wintering personnel listed (1976), 204-205
Antarctic Research Series, 192
Antarctic Service Expedition, U.S. (1939-1941), 211, 212-213, 219
wintering personnel listed, 215
Antarctic Surface Water, 258
Antarctic Treaty, 10, 109
consultative meetings, 1-8, 11, 282, 283
Antarctic Zone, 182
"Antarctica" (motion picture), 41
Antarctica Service Medal, 206
Antarctissa spp., 172
Antenna, 98, 129, 136, 195
Anthocyrtidium sp., 172
Antifreeze, biological, *60*
Anton Brun, 287
Anvers Island, 24, 27, 102, 220, 224
map, *13*
research, 12-20, 21, 55, 193-194, 226
(*See also*: Arthur Harbor.)
Apatite, 268
Aptenodytes sp., 188
Aptian age, 170
Aquarium, 56, 57, 60
Aragno, F., 29
Aragno, H.R., 29
Arctic Biological Station, Canada, 187
Arctic Gas Pipeline, 284
Arctic Ice Dynamics Joint Experiment (AIDJEX), 116, 283, 284
Arctic mid-Ocean Ridge, 284
Arctic Review Workshop, 283
Arctocephalus sp., 188
Argentina, 9, 11, 110, 115, 204, 213, 215, 218, 278
Bernadino Rivadavia, 49, 194
continental shelf research, 29-33, 230-231
Dirección Nacional del Antártico, 53, 225
Instituto Antártico Argentino, 49, 53, 73, 102-103, 156, 158, 184, 222, 225
Museo Argentina de Ciencias Naturales, 53, 187, 188, 194
Museo Nacional, 48
Naval Hydrographic Service, 49, 73, 184
Servicio Meteorológico Nacional, 152
Argentine Basin, 30, 32, 33, 48
Argentine Islands, 16, 24, 102-103
British station, 152
Argillite, 260
Argon, 80, 199
Arizona State University, 246
Armitage, Cape, 34-35
Army, U.S.
Air Force, 108, 216
Cold Regions Research and Engineering Laboratory, 95, 195, 197, 198, 249, 252
Arnaud, P.M., 186
Arnoldy, Roger L., 131
Arrays, *154*-156
Arrival Heights, 2
Artedidraco sp., 51, 184
Arthropods, 240
Arthur Harbor, 56-57
photograph, *14*
research, 12-20, 24-26, *27*-29, 55, 220-222
Ascocyra sp., 15, 28
Asgaard Group, 96
Ash, 246, 249, 269
Aspland Island, 75, *76*
Assembly of Mathematical and Physical Sciences, 283
Asteroids, 17, 19, 28, 51-52, 54, 184
Asteromphalus sp., *34*, 35
Asteroplakphus sp., 81
Asterossoans, 55, 184
Astrononion sp., 29, 220
Astrotoma spp., 51, 52
Atka, USCGC, 287
Atlantic Ocean, 48, 152-153, 175-176, 187-189
Atmospheric research, 99-103, 119-153, 201
(*See also*: Particle precipitation; Upper atmosphere physics.)
Auckland, University of (N.Z.), 89
Augite, 255, 268, 274
Aurora, 41, 141-*142*, 201
Australia, 2, 11, 36
Department of Natural Resources, 242
Division of National Mapping, 241, 242
National Antarctic Research Expedition, 96
Austratocythere sp., 81
Austrodoria sp., 17
Azam, F., 200

—B—

Back Bay, 217
Bacteria, 16, 17, 18, 19, 79, 190, 192
Bahía Aguirre (Argentina), 115
Bahía San Sebastian, 251
Baker, D. James, Jr., 154, 155, *282*, 285
Baker, Mount, 284
Balaenoptera spp., 187
Balloons, 99-101, 119, 130, 137, 201, 202
flight summary, *138*
Balsley, B.B., 201
Barium, 265
Barkow, Mount, 258-259
Barnacles, 59
Barne, Cape, 81
Barnes, Calvin G., 78
Barograph, 90
Barrett, Peter J., 78, 272, 273
Barsdate, Robert J., 193
Bartley Glacier, 96
Bartol Research Foundation, 140, 195
Barwick Valley, 2, 91
Basalt, 79, 242-245, 253-256, 258-259, 265, 271, 274
Basanite, 265
Basanitoids, 274
Base E (U.K.), 217, 218
Bastien, Thomas W., 267
Batholiths, 257-258, 261
Bathydraco sp., 184
Bathydraconidae, 55
Bathymetry, 51, 79, 159, 231-235
Bathythermographs, 49, 156, 157, *158*-159, 229
Bay of Whales, 212
Bauchmann, N., 158
Beacon Supergroup, 79, 82
Beacon Valley, 250-251, 252
Beagle Channel, 187
Bear (Byrd's ship), 212, 213
Beardmore Glacier, 246, 253
(*See also*: Storm Peak.)
Beaufort Sea Conference, 284
Bedrock, 199, 248, 267
Beget, James, 275
Behling, R.E., 275
Belgium, 110, 115
Belgrano Station (Argentina), 120, 201
Bell Laboratories, 132, 201
Bellingshausen, Thaddeus von, 267
Bellingshausen Basin, 232
Bellingshausen Sea, 152, 288
Bellue, Cape, 24
Belt, keith, 98
Benmoreite, 265, 274
Bennett, Hugh F., 195
Bennett, Joseph E., 112, *282*
Benninghoff, William S., *282*, 283
Benthos, 12-20, 24-26, 27-29, 48, 50, 51, 52, 53, *53*-59, 79, 85, 162, 165-167, 186-187, 196, 200, 220-222, 292
Bentley, Charles R., 36, 37, 198, 276
Bentz, Joanne L., 258
Bergen, University of (Norway), 199
Bern, University of (Switzerland), 199
Bertrand, Kenneth, 219
Biecutum sp., 169
Bingham, E.W., 214
Biochemistry, 200
Biogeography, 173-174
Biology, 8-12, 27-29, 40, 48-70, 110, 182-190, 194, 200, 218, 285
collections, 292
NSF award of funds, 42-43, 113, 208, 295-296
(*See also*: Ecklund Biological Center *under* McMurdo Station; International Union of Biological Sciences; Microbiology.)
Biomass, 14, *16*, *17*, 18, 19, 28, 48, 50, 56, 184, 194
Biomedicine, 40, 196
Biostratigraphy, 86, 169-*170*, 171-172, 175-174, 240, 288
Biota, 182-192, 194
Biotite, 241, 242, 257, 258, 259, 260, 261, 268
Bird, Cape, 66
Birds, 10, 49, 52, 185, 187-189, 196, 285
banding program, 194
migration, 226
(*See also*: Penguins; Petrels; Skuas; Terns.)
Biscoe Island, 57, 215
Bivalves, 19, 25, 28, 59, 224-225
Black, Richard B., 212, 213
Black Coast, *257*-258, 259
Black Island, 96, 205
Blattaria, 240
Blizzard Heights, 239-240
Bloch, J., 36
Bloch, S., 250
Blueschists, 75
Boats, 55
Bodega Marine Laboratory—*see under* California, University of
Bodkin, J.L., 274
Bodman Point, 225, 224
Boekelheide, Robert J., 66
Boger, Jane L., 163
Bolivina sp., 29
Bonaparte Point, 13-14, *16*, 57
Bonney, Lake
aerial photograph, *191*
Basin, 275
ecosystem model, 190-*191*
hut, *91*
USARP activities (1976-1977), 204
Borehole, 37, 199, 205
Borgovoua sp., 176
Borns, Harold W., Jr., 86
Boron, 180
Boschert, Ralph, 98
Bothidae, 184
Boulders, 19
Bouchia sp., 14, 24, 25, *26*
Bowman Coast, 259
Boyd, Janet L., 190
Boyd, Robert, 190
Brabant Island, 54
Brachiopods, 15, 16, 17, 28
Brady, Howard T., 78, 81
Brand, Timothy E., 19, 24, 27, 222
Bransfield, RRS (U.K.), 98, 110, *114*, 115
Bransfield Strait, 165
Brazil, 2, 9, 187
Breccia, 86, 271
Brennan, Keith G., 2, 7
Brimstone Peak, 255, 255
Brine, 195
British Antarctic Expedition (1907-1909), 35-36
British Antarctic Survey, 11, 97-98, 102-105, 152, 193, 194, 204, 219
Base E., *212*
Bromley Plateau, 187
Broome, Robert, 235
Brown Peninsula, 96, 195, 233-234
Brownell, Robert L., Jr., 187, 189
Bruchhausen, Peter, 70, 73
Brunhes age, 165, 174
Bryden, Harry, 155
Bryozoans, 15, 16, 17, 24, 25, 26, 28, 79, 81, 192, 221
Buccella sp., 234
Bucher, Gerald J., 79, 88-89
Budd, W., 36
Buenos Aires, Argentina, 110, 155
Buettner, Robert J., *41*-42
Bull, Colin, 282
Buoys, air-droppable, *101*
Bureau of Indian Affairs, U.S., 212
Burton, Steven J., 1
Burton Island, USCGC, 40, 59, 104-105, 218, 267, 287
Butler, K.S.P., 215
Byers Peninsula, 2, 14
Byrd, Richard E., 212
Byrd Antarctic Expeditions, 215, 219
Byrne, Thomas R., 1, 2

—C—

Cahill, Laurence J., Jr., 131, 201
Calcite, 32, 246, 247, 273
Calcium, 148, 241, 249, *251*
Calcium carbonate, 166
Calcium chloride, 90
Calcium oxide, 165-*164*
California State College, 62, 64, 258
California State University, 70, 72, 73
California, University of
Berkeley, 20, 21, 24, 27, 28, 198
Bodega Marine Laboratory, 47, 226
Davis, 12, 20, 24, 27, 29, 55, 58, 99, 144, 162, 200, 201, 211, 219, 220, 222, 285
Los Angeles, 99, 200, 205, 240
San Diego, 136, 154, 194, 195, 196, 199, 200, 226
(*See also*: Scripps Institution of Oceanography.)
Santa Barbara, 181-182
Calkin, P., 278
Callophyllis spp., 17
Calving, 96
Cambrian age, 246
Cameras, 141-142, 202
Cameron, Richard L., 56, 57, 94
Campbell Island, 104
Campbell Plateau, 169
Campodonico, Italo, 186
Canada, 186, 196, 284
Environment Canada, 189
Geophysics Research Board, 284
National Research Council, 258, 282, 284
Canada Glacier, 97
Cañon, Antonio, 94
Canterbury, University of (N.Z.), 188
Cape Berteaux, 218
Cape Horn, 155
Cape Thompson Environmental Park, 285
Carapace Nunatak, 240
Carbohydrates, 17, 18, 54
Carbon, 17, 80, 200
(*See also*: Halocarbon; Hydrocarbon.)
Carbon dioxide, 80, 194, 261
Carbon-14, 86-88, 186, 199, 234
Carbonate, 242
Cargo operations, 104-105, 106, 108, 110, 111, 115
Carlson, Christine, *294*
Carlucci, A.F., 200
Carnegie (1920 ship), 130
Carpenter, D.L., 119, 120
Carpenter, F.M., 240
Carrara, Gustavo, 55
Carroll, Arthur J., 213
Carroll, John J., 99, 201
Cartwright, Keros, 89
Case Western Reserve University, 62, 64
Casey Station (Australia), 96, 37, 97-98
Casey-Vostok traverse, 37
Cassidulina sp., 222, 234

Cassidulinoides sp., 29, 81, 220-221, 222
Cassidy, Dennis S., 73, 92, 287
Cassidy, William A., 205
Castillo, Jorge, 186
Castro, Carlos, 94
Catharacta sp., 57, 111
Cenomanian-Turonian age, 170
Cenozoic age, 79, 84, 169, 173-174, 193, 246, 277, 294
Cephalopods, 167, 184-185
Cerro Paine, *93*
Cesium, 263
Cetaceans, 187-189, 194
Chabazite, 259
Chad (Leon), Lake, 90, 276
Chaetoceros sp., 186
Challenger Expedition (1873), 184
Champsocephalus sp., 50
Chang Peak, 269
Channichthyidae, 55
Chapman-Smith, Michael, 88, 89
Charcot, Pierre, 267
Charcot Island, 212
Charcotia sp., 35
Charnockites, 295
Charts—*see* Maps
Chemistry, 90, 194, 198, 199-200, 253-256, 275-276
(*See also*: Biochemistry; Geochemistry.)
Chert, 72
Chiang, Erick, 290
Chaunodraco sp., 184
Chitons, 15, 26
Chivers, Hugh J.A., 136, 195
Chloride, 251, 252, 275-276
Chlorine, 47, 148, 249
Chlorite, 52, 242
Chloritoid, 242
Chlorofluorocarbon, 99-100, 195
Chlorophyll, 58
Chorismus sp., 54
Christchurch, N.Z., 38, 39, 67, 95, 105, 110, 197, 232
Chromium, 230, 249
Cibicides sp., 14, 29, 81, 166, 220, 221
Ciesielski, Paul F., 70, 73
Ciliates, 14, 17, 192
Circumantarctic Current, 155
Circumpolar Current, 157
Circumpolar Deep Water, 238
Cirripeds, 192
Clampitt, William, 156
Clarence Island, 75, *76*
Clark, R.H., 272
Clasts, 86, 88, 241-242, 243-245, 267, *268*, 269, 278
(*See also*: Pyroclasts.)
Clay, 30, 32, 77, 162, 163-165, 168, 170, 225, 248, 249
(*See also*: Sediments.)
Clements, Miguel, 52
Climate, 70-73, 152, 202, 294
summaries, inside back cover of each issue
(*See also*: Climatology; Weather conditions.)
Climatology, 143-144, 283
(*See also*: Paleoclimatology.)
Climatonomy model, 149-151
Clinoptilolite, 32
Clinopyroxene, 267
Clouds, 153, 202
summaries, inside back cover of each issue
Clough, John W., 95, 196
Cnemidocarpa sp., 17
Coast Guard, U.S., 47, 105, 194, 197
Cobalt, 190, 230-231, 249
Cobb, William E., 130, 201
Cobbles, 19
Coccoliths, 167, 169, 288
Cocconeis sp., *34*, 35
Cod, 50, 60
Coelenterates, 192
Cold Regions Bibliography Project, 292-295
Coleoptera, 240
College, Alaska, 139
Colorado, University of, 263, 269, 270, 284
Colossendeis sp., 17
Columbia University
Lamont-Doherty Geological Observatory, 33, 70, 73, 75, 157, 158, 193, 199, 231, 239
Comendite, 263
Commerce, U.S. Department of, 100
Committee on International Polar Research, 283
Commonwealth Glacier, 77, 88, 90, 96, 276
DVDP cores, 275
Communications transmitter, 108
Compagnie des Messageries Maritimes, 196
Computers, 99, 123-125, 156, 198, 202, 276-277, 290-291, 293
Hewlitt-Packard, 285-287
Concepción, Universidad de (Chile), 186
Conchostracans, 239, 240
Conductivity-temperature-depth measurements, *74*, 75, 235
Conger, Paul S., 35
Conglomerates, 86, *93-94*, 193, 241-242
Conjugate point research, 119-122, 125, 131-132, 136-137, 195, 201
Conrad, R/V, 251
Conrow Glacier, 97
Conservation, 285
Construction, 59, 108-109, 110, 202, 212, 218
Contamination, 90-92, 109, 186-187
(*See also*: Bacteria; Microbes; Pollution.)
Contractor support activity, 41-42, 110-111
(*See also*: Holmes and Narver, Inc.)
Copenhagen, University of (Denmark), 157, 158, 200
Copepods, 19, 192, 292
Copper, 230-231
Coprolites, 239
Coral, 39
Cordierite, 242, 260-263
Cores
Eltanin, 77, 166, 169, 171-*172*
gravity, 200
permafrost, 275-276
phleger, 287-289
piston, 72, 77, 104, 165, 169, 173, 175-176, 177-178, 207, 287-289
trigger, 72, 165-167, 207, 287-289
(*See also*: Dry Valley Drilling Project; Antarctic Marine Geology Research Facility *under* Florida State University.)
Coring operations, 71-73, 77, 104, 274
(*See also*: Drilling operations.)
Corliss, Bruce H., 165
Cornuspira sp., 222
Cortés, Raul, 94
Cosmic radiation, *140-141*, 195
(*See also*: Radiation.)
Coscinodiscus sp., *34*, 35
Coulson, Kinsell L., 99, 201
Crabs, 8, 9, 184-185
Craddock, Campbell, 267, 282, 283, 294
Craw, Charles, 2
Crawford, Richard E., 50, 55
Creek, Leilani D., 35
Cretaceous age, 93-94, 169, 222, 258
Crevasse, 213, 233-235
Crew, Henry, 255
Cribrostomoides sp., 221
Crinoids, 51-52, 54, 55
Cripe, Carl K., 95
Cristobalite, 247
Crithionina sp., 29, 221
Cross Valley, 225
Crozet Islands, 184-186
Crozier, Cape, 2, 189-190, 196
penguin rookery, 66
Crustaceans, 14, 15, 17, 52, 55-58, 59, *168*, 239-240
(*See also*: Krill.)
Cummingtonite, 242
Cumpston Massif, 241
Cumulus Hills, *243*
Curdiea spp., 14, 15, 17
Curl, Herbert E., 285
Curran, Martin, 57
Current Antarctic Literature, 47, 292, 293
Current meters, *74*, 75, *154*-156, *157*-158, 159, 199, 235, 236, 238-239
Cyclogyra sp., 222
Cyclopoids, 292
Cymodocella sp., 17
Cyzicus spp., 240
Czamanske, Gerald K., *294*
Cystoclonium sp., 17, 18

—D—

Dahm, Clifford, 157, 158
Dalziel, Ian W.D., 75, 93, 94, 195
Dana Mountains, 258-259
Daniels, Bruce A., 182, 292
Daniels, Robert, 24, 58, 219
Dansgaard, W., 200
Darlington, Henry, 216
Darlington, Jennie, 216, 217
Dasyptilon sp., 17
Data bank—*see* Computer
Dawson Island, 95
Dayton, Paul K., 58, 196
Dean, J., 158
Dearborn, John H., 49, 50, 52, 54, 292
Debenham Islands, 212, 218
Debris, 72, 84, 96, 168
Decapods, 167-168
Deception Island, 21, 24, 61, 214, 215
research, 19, *162*-165
Decker, Edward R., 88
Deep Freeze, Operation
DF '62, 287
DF '72, 112
DF '73, 104, 108
DF '76, 104-109
DF '77, 109
Deep Sea Drilling Project, 84, 85, 163-165, 167-*172*, 175, *175-176*, 272, 288
Defense, U.S Department of, 41, 47
Defense Mapping Agency, 231, 233
DeGoes, Louis, 12, *282*
Deenurcus sp., 167
DeLaca, Ted E., 12, 20, 26, 219, 222
Delisea sp., 18
DeLisle, John, 204
Delmas, R., 36
Deltas, 88
DeMaster, Douglas P., 61, 196
Denmark, 158
Density measurements, 155, 199
Denton, George H., 77, 86, 197, 275, 282
Denys, C., 55, 115
DePaul University, 55, 95, 115
Depth measurements—*see* Conductivity-temperature-depth measurements; Salinity-temperature-depth measurements
Desko, Daniel A., 39, 47, 105
Desmarestia spp., 15, 16, 21, 23
Detritus, 16, 17, 18, 19, 34, 165, 220
Deuterium, 199, 274
DeVries, A.L., 60
DeWitt, Hugh H., 48, 49, 50, 53, 55, 182, 292
Diamictites, 85, 86, 275
Diamictons, 275, 276
Diatoms, 14, 17, 18, 19, 25, 28, 33-36, 77, 81, 82, 84, 167, 173, *175-176*, 186, 224, 254, 271, 288
Diaz, Demitirio, 186
Dichtyocha sp., 178
Dick, Elliot C., 68, 196
Dickinson, Wayne, 156
Dickite, 249
Diesel Fuel Arctic (DFA), 90
Dihydrohalite, 190
Dikes, 243-244, 267
Dingle, Bruce, 120
Dinkelman, Menno G., 167
Diorite, 257-259
Diplasterias spp., 16, 28, 51
Discovery Bay, 24
Discovery, Mount, 195
Dissostichus sp., 60
Distephanus sp., 35, 81
Diving
scuba, 13, 14-15, 19, 21, 24, 25, 26, 27, 58-59, 196, 220, *221*
Dodecolopoda sp., 17
Dogs, 215, 216
Dolerites, 242-245, 253
(*See also*: Ferrar Dolerite.)
Dolomite, 32
Dolphins, 187-188
Dome C, 58, 106, *108*-109, 110, 198
construction, 59
field camp closed, 107
research, 57
skiway, 107
temperature, 39
Don Juan Aquifer, 90
Don Juan Basin, 90, 273
Don Juan Pond, 89, 90, 205
Don Samuel (Argentina), 215
Doolittle, J., 119
Doppler soundings, 97-98, *102-103*, 195, 198
Dorney, Herbert G., Jr., 213
Dott, R.H., Jr., 93, 94
Douglas, Everett L., 58, 62, 64
Draganovich, E., 75
Drake Passage, 9, 153, 154-159, 174
Dredges, 71-73, 287
Drewry, D., 36, 37
Dreyfus, Ann, 35
Drilling operations, 37, 78-92, 95, 169, 198
(*See also*: Coring operations; Deep Sea Drilling Project; Dry Valley Drilling Project; Ross Ice Shelf Project.)
Driencourt Point, 54
Drieschman, Scott, 66
Droguett, Gaston, 159
Dry Valley Drilling Project, 77, 78-92, 107, 108, 203, 204, 271-272, 275-276, 287
core sample, *288*
field party evacuated, 107
Phase III personnel listed (1975-1976), 92
seminar, 272-275
Dry valleys
research, 77, 89-90, 96-97, 106-107, 149-151, 195, 203, 243, 272
USARP activities (1976-1977), 204
(*See also under* names of individual valleys.)
DSDP—*see* Deep Sea Drilling Project
Dual Air Density, 47
Dudeney, J.R., 102
Dudley-Hart, Paul, 53, 153, 184
Dufek intrusion, 197
Dufek Massif, 197, *294*
Duggal, Shakti P., 140
Dugger, John A., 1
Dulong, F.T., 228
Dummett, Mount, 241-242
Duprez, Carlos, 53
d'Urville, Dumont-Vostok traverse, 37
Durnsonde, 99
DVDP—*see* Dry Valley Drilling Project
Dyer, J. Glenn, 213
Dyer Plateau, 215

—E—

E-region, 201
Eadie Island, 75, *76*
Eakin, Richard R., 50
Early age, 72, 73
Earth sciences, 78-98
(*See also*: Thiel Earth Sciences Laboratory *under* McMurdo Station.)
Earth tides, 203
Earthquakes, 80

East Antarctic Ice Sheet, 78, 149, 198
East Antarctica, 38, 39, 144, 198
East Base, 211-219
Easterday, Bernard C., 196
Echinoderms, 49-55, 84, 182-184
Echinoids, 19, 52, 54
Ecklund, Carl, 213
Ecklund, W.L., 201
Ecklund Biological Center—*see under* McMurdo Station
Ecology, 12-20, 220-222, 292
(*See also*: Contamination; Paleoecology; Pollution.)
Ecosystem, 190-*191*, 239-240
Edisto, USCGC, 218
Edwing, R., 228
Ehrengergma sp., 81, 234
Eights Coast, 267
Electrical measurements, *128-129*, *130*, 201, 276-277
Electrons, 120-122, *126*-127, 137-138, 195, 201
(*See also*: Particle precipitation.)
Elephant Island, 19, 20, 75, *76*
Elliott, David H., 225, 253, 256
Elliott, Brady, 156
Elliott Quay, 109
Ellis, Melvin Y., 97
Ellsworth Land, 97-98, 258, 269
Ellsworth Mountains, 97-98
El-Sayed, Sayed Z., 8, 11, 33, 47, 184, 197, 283
Elsevier Publishing Co., 206
Elston, Don, *288*
Eltanin, USNS, 163, 165-167, 175, 177, 252, 287-289
cruises, 197, 292
mapped, 288
(*See also*: *Islas Orcadas*, ARA.)
EMV Associates, Inc., 252
Enderbites, 295
Enderby Land, 37
Endotherms, 194
Endurance, HMS, 98
Energy studies, 99, 201-202
England, Anthony W., *294*
Englemann, Rudolph F., 285
English Strait, 24
Environmental Protection Agency, U.S., 1, 186
Environmental research, 5-7, 90-92, 204, 282, 285
Environmental Research Institute of Michigan, 195
Eocene age, 168, 169, 173, 174, 176
Epiphytes, 16
Epistominella spp., 166, 222
Eponides sp., 82
Erebus Glacier Tongue, 62
Erebus, Mount, 34, 80, 270-*271*
Erebus and Terror Gulf, 227-228
Ericksen, R.L., 274
Ernest E. Lehmann Associates, 267
Erskian, Malcolm, 219
Escarpments, 260
Esperanza Station (Argentina), 152
Estrada, Luis, 75
Ethane, 79
Eucampia sp., 81
Euphausia sp., 8, 9, 45, 53, 55-58
Evans Névé, 278, *279*
Exchange scientists, 40, 128-129, 204, 205, 240
Executive Committee Range, 247, 265-267
Explosives, 108, 109

—F—

Falkland (Malvinas) Chasm, 72
Falkland (Malvinas) Fracture Zone, 72
Falkland (Malvinas) Gap, 70-73
Falkland (Malvinas) Islands, 187, 207, 226
Dependencies Survey, 214-215, 217, 218
(*See also*: British Antarctic Survey.)
research, 19
USARP activities (1976-1977), 194
Falkland (Malvinas) Outer Basin, 175
Falkland (Malvinas) Plateau, 70-73, 167-171, 175-176, 287-289
Falkland (Malvinas) Scarp, 72
Farrar, Edward, 257
Fatalities, 42, 104, 106
Fauna, 12-20, 50, 53, 184-186, 220-225, 239-240, 272-273
(*See also*: Infauna; Megafauna; Meiofauna; Microfauna.)
Faure, Gunter, 165
Fayanas, Hector, 73
F/DRAKE—*see* First Dynamic Response and Kinematics Experiment
Federal Energy Administration, U.S., 1
Federman, Alan, 70, 73
Feldspar, 32, 246, 248-249, 261, 265, 268
Fell, F. Julian, 55
Ferrar Dolerite, 79, 243, 253, 274
Ferraris, F., 228
Ferrig, Richard, 53
Ferroaugite, 255
Ferrohypersthene, 261
Ferromanganese, 231
Field activities (1976-1977), 193-204
Fildes Peninsula, 2
Filson, James V., 109
Filter, Millipore, 51
Finger, Kenneth L., 162, 222
Firn, 37, 195, 199
First Dynamic Response and Kinematics Experiment, 154-159
Fish, 8, 9, 10, 14, 48-55, 59, 60, 111, 182-184, 200, 239-240
abundance, *51*
distribution, *52*
scales, 84
Fish and Wildlife Service, U.S., 111
Fishing, commercial, 49, 50
Fissurina spp., 221, 222
Fitch, Bruce, 99
Fjords, 229, 273, 294
Flandres Bay, 23
Fletcher, Joseph O., *282*
Flights
JATO, 38-39, 107
meteorological, 202-205
turnaround, 105
"Winfly," 105, 106, 108, 196
Flinders University (Australia), 199
Flint, Robert B., Jr., 128
Flora, 12-24, 167-168
(*See also*: Nannoflora.)
Florida State University, 70, 71, 72, 75, 92, 167, 168, 169, 170, 175, 204
Antarctic Marine Geology Research Facility, 287-290
Fluorescence, 261
Fluorine, 274
Flysch, 93-94
Fogle, Benson T., 206
Folger, Cape, 36
Fontanarrosa, Roberto, 52
Food and Agriculture Organization, 10, 11, 12
Food chain, 193-194, 197, 200, 239-240
Foraminifera, 12-20, 24-26, 28-29, 49, 72, 79, 81, 82, 85-86, 162, 163, 165-167, 168, 172, 173, *177*-178, 220-222, 254, 272-273
Ford, Arthur B., 197, 260, *294*
Ford, Gerald R., 205
Forrestal Range, 197
Forsythe, Randall, 75
Fossil Bluff, 226
Fossils, 79, 86-88, 240
(*See also*: Microfossils; Nannofossils.)
Foster, Theodore D., 73, 75, 199, 228
Fowler, A.N., 282
Fragilariopsis sp., 81
France, 9, 11, 36, 37
Territoire des Terres Australes et Antarctique Francaises, 184, 186, 197
Franceschini, Guy A., 152
Franklin Institute—*see* Bartol Research Foundation
Fraser, William, 54, 58
Fremouw Formation, 243-244
Friedman, E. Imre, 204
Frobisher Bay, Canada, 195
Frydenlund, Knut, 1
Fryxell, Greta A., 35
Fryxell, Lake, 90
Fuel, 40, 104-105, 107, 108, 110
Fulmar, *54*
Fumarole Bay, 162
Fungi, 19, 192

—G—

Gabbro, 257
Gainey, Louis F., 168
Gallardo, Victor A., 186
Gallo, Jose, 156, 158
Gander, L.W., 92, 272
Garnet, 241, 242, 261, 262
Garwood Glacier, 96
Garwood Valley, 59
Gases, 99-101
Gastropods, 15, 19, *28*
Gatson, Karl W., 97
Gaudette, Henri E., 242
Gdowski, J., 73
Gedania (Poland), *114*, 115
General San Martin base (Argentina), 218
Generator, 212, 218
Geoceiver, 97-98, 198, 279-281
measurements, 36, 37
Geochemistry, 37, 71, 163-165, 199, 250-251, 253-256, 258, 263-267, 274, 288
Geodesy, 195, 285
Geodynamics, 295
(*See also*: Inter-Union Commission on Geodynamics.)
Geological Society of America, 284
Geological Survey, U.S., 97, 182, 197, 198, 257, 260, 261, 274, 279, 284, 288, 295
field camp, *294*
Geology, 40, 193, 195, 197, 200, 203, 218, 222-225, 240-242, 269-270, 271, 274, 276
NSF award of funds, 43, 113, 208, 296
symposium, 75, 282, 283, 284-285, 293-294
(*See also*: Ages; Antarctic Marine Geology Research Facility *under* Florida State University; Earth sciences; Hydrogeology.)
Geomagnetism, 119-120, 128-129, 195
Geomorphology, 59, 231, 233-235, 278
Geophysical Survey Systems Inc., 199
Geophysics, 37, 40, 70-75, 80, 95, 197, 198, 199, 202, 205, 216, 276-277, 285
NSF award of funds, 43, 113, 296
symposium, 75, 282, 283, 284-285, 293-294
George VI Sound, 215, 217
George Washington University, 29, 30, 228, 230
Georgi, Daniel, 157, 158
Georgiella sp., 17
Geothermal research, 88-89
Gerlache Strait, 61, 194
German Democratic Republic, 2
Giannini, A.P., Jr., 24, 222
Gibbs Islands, 75
Gigartina sp., 14
Giggenbach, W.F., 270
Gilbert Reversed Magnetic Epoch, 172
Gillet, F., 36
Globratella sp., 221
Glacier, USCGC, 42, 73-75, 77, 104, 110, *114*, 115, 226-228, 287
Glaciers, glaciology, 24, 36-37, 40, 47, 59, 88, 95, 96-98, 174, 195, 197, 198, 216, 229, 233-235, 276, 277-*279*, 283, 284
NSF award of funds, 113, 208, 295
SCAR working group, 282
Glass, 244-245, 246, 253-254, 256
Globicephala sp., 187
Globigerina sp., *177*-178, 254
Globocassidulina spp., 29, 81, 163, 166, 221, 222
Glomar Challenger, D/V, 71, 167, 169, *Glycera* sp., 168
Glypheidae, 167-*168*
Glyptonotus sp., 17, 19
Gneiss, 241, 242, 260
Gold, 230-231, 249
Goldich, S.S., 274
Gombos, Andrew M., Jr., 175
Gondwanaland, 195, 294
Gonatus sp., 168
Goniometer, 201
Gonzales, H.R., 29
Gonzalez, Eduardo, 94
Gonzalez, Luis A., 53
Goodspeed Glacier, 97
Goodspeed Nunataks, 241, 242
Gordon, A.L., 199
Gordon, Louis I., 154, 156, 157
Gould, Larry D., 95
Gould, Laurence M., 282
Gow, Anthony, 195
Grabacki, S., 60
Grabs, 19, 29, 30, 35, 59, 79, 81, 229, 287
Graham Land Expedition (U.K.), 212
Granite, 242, 248, 253, 256, 257, 261
Granodiorite, 257-258, 259
Graser, William, 98
Gravel, 19, 50, 51, 86
Gravimeter, 70-73, 205
Gravity, 37, 199, 276
Gray, Travis, 281
Greenland, 111
Greenland Ice Sheet Project, 284
Greenland Sea, 284
Greenler, Robert, 202
Greenwich Island, 19, 24
Grew, Edward S., 240
Gromia sp., 14
Grom, David L., 89
Grosvald, M., 36
Groundwater, 90
Gulland, J.A., 11
Gulls, 54, 57, 196
(*See also*: Skuas.)
Guthridge, Guy G., 47
Gutierrez, C., 73
Gymnodraco sp., 184
Gypsum, 241, 273

—H—

Hafnium, 263
Halacaridae, 192
Half Moon Island, 19
Halite, 273
Hall, Freeman F., Jr., 143, 202
Halley Bay Station (U.K.), 120, 135, 201
Halocarbon, 47, 202
Halogens, 47
Hambro, Edvard, 1
Hamilton, Robert, 99, 285
Hammel, H.T., 66
Hannaites sp., 178-182
Hanson, G.N., 274
Hanson, Kirby J., 202
Hanson, Robert P., 196
Hantzschia spp., 234
Haplophragmoides sp., 81
Harambour, Salvador, 94
Harmothoe sp., 24, 25, *26*
Harpagifer sp., 51
Harris, Henry, 89
Hart Glacier, 97
Harvard Biological Laboratories, 240
Hasegawa, A., 201
Haswell Island, 2
Hawaiite, 263, 274
Hayes, Dennis E., 235
Haze, 151
Heacock, R.R., 158
Healy, T.R., 275
Hearn, P.P., 29, 228, 230
Heat study, 197, 199
Heer, Raymond R., Jr., 206
Heg, James E., 1, 112
Helicopters, 62, 80, 98, 99-101, 104, 204, 270
operations, *105*, 106-107

UH-1N, 106, 107
Heliolithus sp., 169
Helliwell, Robert A., 122, 200, 282
Helliwell Hills, 278
Helotholus sp., 172
Hemisulus sp., 176
Hemisphaerammina sp., 221, 222
Hempel, G., 11
Hendy, C.H., 273
Henkes Islands, 74
Heritage Range, 98
Hero (Palmer's ship), 212
Hero, R/V, 19-24, 95, 98, 114, 186, 192, 194, *214*, 218, 219, 292
contractor support activity, 42, 110
cruises, 29-33, 53-58, 61, 75, 187-189, 228-231
Hero Bay, 155
Herons, 226
Heteroptera, 240
Hexelasma sp., 59
Hickok, David M., *282*, 283
Himmelberg, G.R., 260
Hippocrepinella sp., 29, 221, 222
Hinely, Andrew, 98
Hofmann, D.J., 99, 195
Hogan, Austin W., 202
Holm-Hansen, O., 200
Holmes and Narver, Inc., 26, 29, 41-42, 57, 95, 110-111
Holocene age, 30, 71, 87, 169-170, 203
Holothurians, 15, 16, 17, 52, 54, 59
Holt, Fred C., 39
Holt, S.J., 11
Homoptera, 240
Hope Bay, 16, 19
Hornblende, 241, 257, 268
Hornibrookina sp., 169
Horseshoe Island, 212
Houston, University of, 119, 137
Howard, R. Vincent, 90
Howell, Leonard W., 190
Hubbs/Sea World Research Institute, 196
Hudson, A.N., 60
Hudson Mountains, 269
Huempfner, R., 61
Hughes, Robert E., 1, 7, 285
Hughes Glacier, 97
Humble Island, 226
Humidity, 202
Hummer, Michael G., 67
Hundahl, H., 158
Hureau, J.C., 11, 186
Hushen, W. Timothy, 281, *282*
Hut Point, 35, 97-98, 104
Hut Point Peninsula, 271-274
Hutton Cliffs, 62
Hutton Mountains, 259
Hyaloclastite, 269, 271-272, 274
Hydrocarbon, 80, 90
Hydrocasts, 72
Hydrogen, 80, 199
Hydrogeology, 89-90
Hydrography, 226-228, 236
Hydroids, 16
Hydromagnetism, 126-127, 131-136
Hydrozoans, 25, 29, 221
Hyperoodon sp., 187
Hypersthene, 260-261, 262

—I—

IAGP—*see* International Antarctic Glaciological Project
Iathrippasaris sp., 17
Ice, annual, 79, 273
Ice, brash, 110, 223-224
Ice Core Drilling, 112
Ice cores, 195, 199-200, 290-*291*
Ice crystals, 144-*145*, *148-149*, 202, 238
Ice facies, 193-194
Ice, fast, 104
Ice-free valleys, 204
Ice, glacial, 267, *268*
Ice, pack, 61, 104, 105, 194, 212, 213, 218, 220, 222
Ice scour, 24, 221
Ice sheets, 78, 197, 198, 276, 283, 284
Ice Shelf Water, 238
Ice shelves, 37
(*See also* names of individual ice shelves.)
Ice streams, 198, *280*-281
Ice studies, 36, 37, 78-79, 98, 152, 195, 198, 279-*281*, 294
(*See also*: Glaciers.)
Ice/water interface, 199
Ice wharf, 104, 105, 109
Icebergs, 14, 19, 23, 72, 94-95, 223, 225, 275, cover of June issue
Icebreakers, 104, 194, 197, 217-218, 231, 284
(*See also* names of individual icebreakers.)
Illinois State Geological Survey, 89
Illite, 32
Ilmenite, 256
Immunology, 203
Incertae sp., 167
India, 239-240
Indian Bottom Water, 165-166
Indian Jurassic Kota Formation, 240
Indian Ocean
map, *166*
research, 165-167, 177-178, 184-186
Infauna, 168
Infrasound research, 195
Inoceramus sp., 168
Insects, 240
Institut für Meereskunde (West Germany), 157, 158
Interagency Arctic Research Coordinating Committee, 284
Intergovernmental Oceanographic Commission (UNESCO), 10, 12
Interior, U.S. Department of, 212, 213
Inter-Union Commission on Geodynamics (ICG), 282, 283, 284-285, 293
International Antarctic Glaciological Project, 98, 284
newsletter 5, 36-37
International Association of Biological Oceanography, 11, 12
International Atomic Energy Agency, 2
International Commission on Snow and Ice, 116
International cooperation, 36-37, 48-53, 97-98, 102-103, 184-189, 194, 196, 197, 198, 203, 204, 222-225, 270, 272-275
(*See also*: Antarctic Treaty; Dry Valley Drilling Project; International Antarctic Glaciological Project; Ross Ice Shelf Project.)
International Council of Scientific Unions, 2, 10, 281
(*See also*: Scientific Committee on Antarctic Research; Scientific Committee on Oceanic Research.)
International Geophysical Year, 128
International Magnetospheric Study, 37, 102, 201
International Southern Ocean Studies, 115, 116, 154-158, 259, 295
NSF award of funds, 297
International Union of Biological Sciences, 12
International Union of Geological Sciences, 282, 283, 284-285, 293
International Weddell Sea Oceanographic Expedition, *73-75*, 226-228, 287
International Whaling Commission, 10, 12, 189
Intertidal research, 222-225
Invertebrates, 12-20, 24-26, 48, 49-58, 182-184, 196, 220, 292
Ion density measurements, 127
Ionosonde, 127
Ionosphere, 102-103, 120-122, 130, 156-157, 195, 201
Iquique (Chile), 215
Iridaea sp., 14
Iron, 230-231, 241, 242, 248, 249, *251*, 256
Iselin Bank, 232
Islas Orcadas, ARA, 54, 152-153, 167, 169, 182-184, 192, 204
cruises, *48-53*, *70-75*, 207, 287-289, 292
(*Sde also*: *Eltanin*.)
Isopods, 19, 192, 224
Isotealia sp., 59
Isotopes, 80, 157, 163-165, 195, 199, 200, 275
Isthmolithus sp., 169

—J—

Jackson, Bruce, 99
Jackson, Robert, 99
Jackson, Teresa L., 228
Jacobs, S.S., 199
Jaeger, James, *294*
Jahns, Hans O., 282
Janus Island, 13, *17*
Japan, 9, 11, 36
Chubu Institute of Technology, 272
DVDP activities, 80
National Institute of Polar Research, 80, 92, 204
scientists, 204
Whales Research Institute, 187
Jehl, Joseph R., Jr., 188, 194
Jenkins, William, 157
JEOL (West), Inc., 149
John Bucoe, RRS (U.K.), 97, 218
Johns Hopkins University, 66
Johnson, Donald, 239
Johnson, G.L., 231
JOIDES basin, 232
Jolly, J., 158
Jones, T.B., 102
Joseph, L., 50
Joubin Islands, 21, 24
Joyce, Terrence M., 157, 158
Jurassic age, 75, 167, 168, 169-170, 240, 255, 257, 259, 288

—K—

Kaminuma, Katsutada, 36, 80
Kansas, University of, 204
Kaolinite, 32
Kapela, A.F., 202
Katsufrakis, J.P., 122, 123
Katz, K., 73
Kauffman, T.A., 19, 222
Kaul, Randall, 66
Kawamura, A., 187
Keany, John, 171-172
Keller, Marcelo, 75
Kelley, John J., 36, 101, 207
Kelley, W., 73
Kellogg, Thomas B., 77, 203
Kellogg, William W., *282*, 283
Kelp, 16
Kennett, James P., 175, 177
Kerguelen Islands, 185-186
Kerguelen Plateau, 169
"Kerguelenian Province," 186
Kershaw, Giles, 97
Kerut, E.G., 101
KEVEX Corp., 149
Keys, Harry J.R., 270
King George Island, 2, 19, 152, 163
(*See also*: Fildes Peninsula.)
Kirkpatrick, Thomas W., 104
Kirkpatrick Basalt, 253-256
Kites, 202
Kjome, N.T., 99, 100
Knocklofty Formation, 240
Knox, G.A., 11
Koenig, E.R., 110
Koettlitz Ice Tongue, 195
Kollijakov, V., 36
Konecky, John T., 182
Koonya (1907 ship), 33
Kooyman, Gerald L., 194
Kostick, D., 228
Kovacs, Austin, 195
Kozicki, V.M., 187, 188
Kraus, Earl, 155
Krebs, W.N., 222
Krill, 8-9, 48-49, 55, *55*-58, 75, 111, 115, 194
distribution, *10*
Kristy Cove, 57
Krutchkoff, Richard G., 190
Krypton, 199
Kullenberg, G., 157, 158
Kumai, Motoi, 249
Kunk, Debba, 219
Kurasawa, H.K., 273
Kusunoki, Kou, 92
Kvinge, T., 199
Kyanite, 241, 242
Kyle, Philip R., 253, 263, 270, 274
Kyoto University (Japan), 273

—L—

Labate, Hugo D., 75
Labidiaster sp., 51, 184
LaBrecque, John, 70, 73
Labyrinth, 90
LaCroix Glacier, 97, 190-191
Lagena sp., 81
Lagenorhynchus spp., 187-188
Lago Pehoe, 93
Lago Sofia, 93
Laine, D., 24, 58
La Jolla, Cal., Tritium Laboratory, 226
Lambert, B.P., 242
Lambert Glacier, 36
Lambrus sp., 17
Lammons, J.M., 240
Lamont-Doherty Geological Observatory—*see* Columbia University
Landrum, B.J., 192, 292
Langway, Chester C., Jr., 95, 199, 290
Lanzerotti, L.J., 132, 201
Laparidae, 50
Lapilli, 246-248, 271, 274
Lapter Sea Continental Shelf, 284
Lars Christensen expedition (1934-1935), 216
Larsen Cove, *223*, 224
Larsen Ice Shelf, 213, 228
Larus sp., 54
Larvae, 192
Lasiter, Joe F., Jr., 207
Lasiter Coast, 98, *257*-259
Latady Formation, 257-258
Laternula sp., 19, 59, 224, 225
Lauder, N.Z., 136
Lava, 34, 255, 256, 263, 266-*267*, 269, 270-272
Law Dome, 36
Laws, Richard M., 11, 204
Lax, J.N., 144
Lead, 230-231, 263, 274
Leavitt, M.K., 119
Leeches, 182
Lehmann Associates, 267
Leicester, University of (U.K.), 102
LeMasurier, Wesley E., 263, 266, 269
Lenie, Pieter J., 19, 24, 53, *53*, 56, 58, 189, 219, 230
Leon, Lake, 90, 276
Leptodophylum sp., 187
Leptosomus sp., 15, 28
Lettau, Bernhard, 207
Lewthwaite Strait, 193
Library of Congress, 292
Lichens, 14
Lidar studies, 145-148, 202
Light scattering study, 157, 194, 199
Lillie, Ellen G., 261
Limpets, 14, 26, 28, 54, 57, 225
Lindblad Explorer, M/S (Panama), *114*, 115
Ling, H.Y., 272, 275
Linnus sp., 16, 19
Livestheria spp., 240
Liothyrella sp., 16, 17, 28
Liparidae, 55
Lipids, 54
Lipps, Jere H., 12, 26, 29, 200, 211, 220, 222, 225
Lissodelphis sp., 187
List, Juna, 73

Litchfield Island, 2
Lithoderma sp., 14
Lithodes sp., 185
Little America, 211, 219
Livingston, T.L., 101
Livingston Island, 2, 24, 56, 61, 94-95, 155, 156, cover of June issue
research, 14, 75
Llano, George A., 112, 216, 219, 283
Lliboutry, L., 36
Lobsters, 8, *9*
Lockheed-Georgia Co., 38, 39, 47
Lockheed Palo Alto Research Laboratories, 201
Lockner, F. Russell, 58, 62, 64
Logistics, 282
Long, Terence, 75
Longuncus sp., 167
Lorius, C., 36
Lowe, Edgar F., 52, 53
Lower Wright Glacier, 96
Lubimova, T.G., 11
Lutites, 30
Lychnocanium sp., 172
Lysasterias spp., 16, 51
Lyttelton, N.Z., 35

—M—

Macchiavello, José C.M., 73
Macroalgae, 12-20, 220
Macrofauna, 224-225
Macroptychaster sp., 16
Macrouridae, 50
Maestrichtian age, 169, 170
Magma, 270
Magnesium, 148, 249
Magnetism, 72, 102-103, *138*-140, 201, 203
(*See also*: Geomagnetism; Hydromagnetism; Paleomagnetism.)
Magnetite, 252, 255, 256, 268
Magnetometer, 70-73, 138-139, 195, 201
Magnetopause, 139
Magnetosphere, 37, 41, 120-125, 132-138, 139, 200-201
(*See also*: International Magnetospheric Study.)
Maguire, Mount, 241
Mail, 106
Maine, University of, 48, 49, 50, 53, 54, 55, 77, 86, 104, 182, 183, 184, 197, 198, 203, 275, 278, 279, 292
Maldagi, N., 188
Malmgren, Bjorn A., 177
Maltneneuus sp., 168
Mamayev, O., 11
Mammals, marine, 187-189, 196
(*See also*: Animals.)
Manganese, 230-231, 249
Mapping, 213, 243, 283
geological, 197, 294
topographic, 97-98
(*See also*: Satellites.)
Maps
Antarctic Peninsula, *13*, *76*, *211*
Anvers Island, *15*
Arthur Harbor, *221*
Base E, *212*
bathymetric, 90, 231, *232*
Dyer Plateau, 213
Eltanin cruises, 288
geologic, *240*, *241*, 260
ice, 152
index, *76*
Indian Ocean, *166*
Marguerite Bay, *211*
Neny Bay, *212*
physiographic, 231
Seymour Island, *223*
sketch, *240*, *241*, *250*
South Shetland Islands, *76*
Stonington Island, *213*
topographic, 90
Victoria Land, *250*
(*See also*: *Antarctic Map Folio Series*.)
Marambio Station (Argentina), 98
Marble, 241
Marble Point, 59, 77, 78, 81, 96, 108
Margarella sp., 15, 17
Marguerite Bay, 19, 20, 56
ice conditions, 152
research, 54, *211*-219
(*See also*: East Base.)
Marie Byrd Land, 232, 247, 265
USARP activities (1976-1977), 197
volcanics, *265*, 269-270
(*See also*: Executive Committee Range.)
Marine resources research, 2, 8-20
Antarctic Treaty recommendations, 5
Marion-Dufresne (France), 184-*186*, 197
Marion Island, 184-186
Marschoff, Enrique, 53
Maryland, University of, 47, 137, 138, 201
Mass balance, 36, 90, 197, 198, 199
Massachusetts General Hospital, 196
Mather, Keith B., *282*
Matienzo Station (Argentina), 152
Matuyama age, 174
Maumee, USNS, 109
damaged, *40*, 104-105
Maurice Ewing Bank, 175
Mayewski, Paul A., 242, 243, 277
McAlear, J.H., 252
McBride, Sandra L., 257
McCartney, M., 158
McCauley, Mount, 242
McCleave, James D., 49, 50, 54-55, 182
McCollum, D., 272
McCormick, Sam A., 78
McDonald, Kenneth, 47
MacDonald, William R., 97, 198
McDonald Beach, 233
McGill University, 10
McGinnis, L.D., 92, 203, 274
McGregor, Ronald K., 283
McKelvey, Barrie, 86, 275
McManus, Robert J., 1
McMurdo Ice Shelf, 79-80, 88, 96, 195, 233-*234*
McMurdo Ice Tongue, 205
McMurdo Oasis, 235
McMurdo Sound, 19, 34, 40, 60, 88, 92, 105, 189, 211, 272, 273, 274, 287
DVDP activities, *78*-82, 90, 107, 273-274
research, 58-59, 61-62, 88-89, 106-107, 233-259
USARP activities (1976-1977), 195, 196, 203, 204
McMurdo Station, 38, 59, 66-67, 69, 77, 78, 95, 97, 104, 150-151, 190, 205, 232, 236, 238, 270
aquarium, 60
Berg Field Center, 110
climate summary, 294, inside back cover of each issue
communications transmitter, 108
construction, 110
contractor support activity, 42, 110
DVDP activities, 80
Ecklund Biological Center, 110
fuel delivery, 40, 104-105
ice runway, 79
International Square, 39
mail delivery, 106
nuclear power plant, 80, 109
research, 57, 99-101, 156, *140*-*141*, 198
supplies, 104-105, 106
Thiel Earth Sciences Laboratory, 110
USARP activities (1976-1977), 195-197
visiting scientist program, 204
water desalinization plant, 108-109
"Winfly," 105, 106
wintering personnel, 108, 110
listed (1976), 205
McMurdo Volcanic Group, 79
Macquarie Island, 98, 190
Macrouridae, 184
McWhinnie, Mary A., 55, 95, 115, *282*, 285
Mead, Richard, 75
Medals, 41, 116, 206
Medical illness, 39-40, *68*-70, 107
Medical research, *67*-70, 196-197, 205, 283
NSF award of funds, 42-43, 295-296
(*See also*: Biomedicine.)
Megacryus, 260-265
Megafauna, 200
Meiofauna, 17, 29
Melanson, Edward J., 1
Melchoir Islands, 19, 213, 215
Mellor, Malcolm, 116
Melosira sp., 176
Meltwater, 190-191, 215, 229, 234
Melville, R/V, 155
Mende, S.B., 201
Menzies, Mount, 242
Mercier, Rae, 225
Merin, I., 228
Meserve Glacier, 96
Meserve Hut, 96
Mesozoic age, 72, 82, 169, 193, 240, 246, 295
Metamorphism, 295
Meteorites, 203-204
Meteorology, 40, 144-145, 148-149, 159, 202-203, 204, 216, 283
NSF award of funds, 43, 115, 208, 296
(*See also*: Balloons.)
Methane, 79, 80, 90
Metula (tanker), 186-187
Miagkov, Sergei M., *96*, 233
Mica, 241, 242, 248-249, 259
Michel, Robert L., 75, 226
Michigan State University, 195
Microbes, 190, 200
Microbiology, 90
Microbiota, 17
Microfauna, 86, 167-168
Microfomils, *81*-85, 167, 173-174, 205, 234, 275, 276, 288
Microhabitats, 17
Micrometeorology, 144, 204
Microorganisms, 18, 91
(*See also*: Bacteria.)
Micropaleontology, 82, 234, 275, 276, 288
(*See also*: Age determination.)
Micropodiscus sp., 95
Microprobe, electron, 255-256, 260, 261, 262
Micropulsations, *131*-132, 139, 201
(*See also*: Very low frequency studies.)
Microscope, scanning electron, 31, 94, 148, 249-252
Middleton, Jason, 75
Miers Bluff Formation, 75
Migmatites, 241
Mikkelsen Island—*see* Watkins Island
Mikkelson, Caroline, 216
Mikkelson, Klarius, 216
Miles, J.A.R., 68
Miliammina sp., 163
Military Airlift Command, 67
Military Sealift Command, 40
Millard, R., 158
Miller, J.H., 272
Mineralogy, 248-249
Minerals, 2, 7-8, 230-231, 244-245, 246, 248-249, *253*-256, 260-267, 282, 285, 294
(*See also under* name of specific mineral.)
Minna Bluff, 195
Minnesota, University of, 54, 61, 104, 111, 131, 194, 196, 201
Miocene age, 81, 86, 174, 175, 176, 272
Mires Valley, 80
Mirnyy oasis, 248
Mirnyy Station (U.S.S.R.), 37
Mirnyy-Vostok traverse, 37
Mirounga sp., *189*-190
Missouri, University of, 260, 262
Mitchell, E.D., 187
Moe, Richard L., 19, 20, 26, 27, 28, 222
Moller, D., 158
Molluscs, 15, 17, 25, 52, 84, 86-88, 222-225
Molodezhnaya Station (U.S.S.R.), 37
Molybdenum, 230
Monash University (Australia), 75
Monostroma sp., 28
Montevideo, Uruguay, 110
Montmorillonite, 32, 248-249
Monzonite, 259
Moon Bay, 94-95, cover of June issue
Moraines, 88, 96, 203, 234, 243, 249, 252, 269, 277
Morey, Rexford M., 199
Morgan, V., 36
Moridae, 184
Morley, Bruce, 145, 149
Morning, Mount, 195
Morozumi Range, 277-*278*
Morphology, 178-182, 195, 201, 228-229, 231-233, 244
(*See also*: Geomorphology.)
Morrell, Stephen H., 66
Morton, Daniel H., III, 190
Moscow State University (U.S.S.R.), 96, 97, 233, 235
Motion pictures, 41
Motorcar, 35
Moulton, Kendall N., 36, 94
Muchmore, Harold G., 67, 68, 203
Mud, 19, 162, 220-222, 276
Mudflats, 223-*224*, *225*
Mudstones, 85, 86, 242, 243
Mugearite, 263, 274
Müller-Schwarze, D., 194
Murphy, Mount, 269
Murrish, David E., 62, 64
Muscovite, 247
Myriogramme spp., 17

—N—

Nagata, Takesi, 80, 92, 204
Nagoya University (Japan), 78, 273
Nakai, Nobuyuki, 78, 80, 273, 274
Nannoflora, 170
Nannofomils, 72, 167, 169-*171*, 173-174, 288
Nannoplankton, 82, 186
Nansen casts, 49, 53, 75, 156, 227-228
Nansen Drift Station, 281, 283, 284
National Academy of Sciences, U.S., 116
Polar Research Board, 12, 281-285
(*See also*: National Research Council *under* Canada.)
National Aeronautics and Space Administration, U.S., 47, 156, 201
National Data Buoy Office, 156
National Institutes of Health, U.S., 64, 65
National Oceanic and Atmospheric Administration, U.S., 101, 130, 156, 143, 201, 202, 207, 283, 293
National Weather Service, 99
Pacific Marine Environmental Laboratory, 157
National Science Foundation, 59, 97, 102-103, 110, 155, 232, 235, 284, 290
budget, 41
contracts, 80, 92, 95, 111, 156, 281, 288, 291, 292
Division of Ocean Sciences, 239, 295
Division of Polar Programs, 1, 40, 47, 94, 101, 107, 112, 206, 283, 291, 293, 295
exchange scientist applications, 40
funding awards, listed, 42-44, 115, 116, 208, 295-297
interagency agreements, 98, 105, 107, 109, 293
Office for the International Decade of Ocean Exploration, 154
Office of Polar Programs—see Division of Polar Programs
proposals deadlines, 41
Natrolite, 258
Natural History Museum, San Diego, Cal., 188
Naturaliste Plateau, 169
Naval Air Rework Facility, 38, 39, 47
Naval Mobile Construction Battalion, 108
Naval Nuclear Power Unit, 109
Naval Oceanographic Office, 232
Naval Support Force, Antarctica, U.S., 39, 104, 108
command changed, 112
Nauicula spp., 234
Navy, U.S., 1, 47, 197, 212
Fleet Weather Facility, 152
Office of Naval Research, 138, 156, 231, 281, 284
Task Force 199, 112
very low frequency stations, 120
Neal, Victor T., 235
Neanthes sp., 16

Nebraska, University of, 47, 78, 95, 195, 198, 270, 271, 272, 281
Nedeshava, G.N., 233
Neff, Richard J., 98
Neff, W.D., 143
Neilson, David R., 111, 194
Nelson, Willis H., 294
Nematodes, 17, 25
Nematonurus sp., 51
Nemerteans, 16, 19
Nemoto, T., 11
Neny Bay, *212*, 215, 216
Neobuccinum sp., 19, *28*
Neocomian age, 170
Neogene age, 71, 174, 175, 176
Neogloboquadrina sp., 85, 177, 178
Nephelinites, 274
Nephrolithus sp., 169
Nets, 35, 53, 75
Neuroptera, 240
Nevada, University of, 99, 145, 149, 200, 202, 285, 286
New Hampshire, University of, 131, 242, 245, 277, 278
New Harbor, 77, 90, 196
DVDP activities, 273, 275-276
research, 58-59, 86-88
New Rock, 21
New York State University, 95, 194, 199, 201, 207, 274, 278, 290
New York Zoological Society, 66
New Zealand, 2, 11, 80, 92, 196, 212, 269, 282
Department of Scientific and Industrial Research, 263, 270, 272
National Weather Service, 204
Ross Dependency Research Committee, 272
Newman, G.G., 11
Newman, William, 59
Nickel, 230-231, 249
Nicolli, H., 29
Nimrod (British Antarctic Expedition ship), 53-55
Nishiyama, T., 273
Niskin casts, 31, 228
Nitrate, 75, 156, 191
Nitrite, 75, 156
Nitrogen, 18, 79, 80
Nitrous oxide, 99
Nitzschia spp., 234
Nodosaria sp., 222
Nordhill, Claude H., 112
North Atlantic Treaty Organization, 158
North Fork, 89, 287
North Star (ship), 212, 213
Northern Illinois University, 78, 81, 82, 85, 92, 200, 203, 272, 273, 274
Norvegia (ship), 267
Norvegia Bay, 267, *268*
Norway, 1, 2, 9, 11, 110, 115
Institute of Cosmic Physics, 137
Norsk Polarinstitutt, 199
Nothofagus sp., 82
Notocrangon sp., 54
Notothenia spp., 51, 54, 57, 183
Nototheniidae, 50, 184
Novolazarevskaya Ice Shelf, 37
Nowlin, Worth D., Jr., 154, 155
Nuclear power plant, 109
Nuclei, 99-*100*, 148-149, 195
Nudibranchs, 15
Nunataks, 197, 241, 242, 247, 258-259, 260
Nutriclines, 185
Nutrients, 18, 155, 156, 194, 199, 227
Nutt, Constance, J., 294
Nuttalochiton sp., 26

—O—

Ob (U.S.S.R.), 231
O'Brien Island, 75, *76*
Observation Hill, 80
Observatories
geodetic satellite, 195
geological, 33
geophysical, 102
magnetic, 139
(*See also*: Columbia University; Point Reyes Bird Observatory.)
Ocean bottom research, 35, 49, 53, 104, 195, 220, 226-228
(*See also*: Antarctic Bottom Water; Oceanography.)
Oceanography, 70-77, 154-161, 199, 204, 235-239, 285
NSF award of funds, 43, 113, 208, 296-297
(*See also*: Ocean bottom research; Scripps Institution of Oceanography.)
O'Connor, Edmund F., 58
Octocorallia, 192
Odontaster sp., 16, 17, 28, 51, 54, 58, 59
Odontotropis sp., 176
Oeschger, Hans, 199
Ohio State University, 256, 263
Institute of Polar Studies, 163, 222, 225, 245, 246, 253, 270
Ohtake, Takeshi, 148, 202
Oklahoma Medical Research Foundation, 203
Oklahoma, University of, 67, 68, 203
Oligocene age, 169, 174, 176, 269
Oliver, John S., 58, 78
Olivine, 267-268, 274
Olsen, Steinar, 11
Olson, G.L., 99, 100
Olympus Range, 96-97
Onychites, 167-168, 288
Ooze, 72, 175
Ophiacantha sp., 51, 52
Ophionotus spp., 51, 52, 54, 184
Ophioperla sp., 51, 52
Ophiuroglypha sp., 51, 52
Ophiuroids, 51-52, 54, 59
Ophiurolepis sp., 51
Ophryotrocha sp., 168
Optical measurements, 158, 202
Orcadas Station (Argentina), 152
Oregon State University, 154, 155, 156, 157, 158, 235, 237
Orheim, Olav, 199
Ondorsalis sp., 166
Orndorf, Mount, 246-247
Orogens, 293
Orthopyroxene, 260-263
Osada, E., 60
Oslo, University of (Norway), 137
Osuka, J., 273
Ostracods, 14, 25, 79, 81, 82, 192
Otago, University of (N.Z.), 68, 203, 255, 256
Otaria sp., 188
Oammina sp., 222
Oxfordian age, 167-168, 170
Oxygen, 49, 72, 75, 79, 156, 157, 168, 194, 199, 225, 274
Ozone, 99-101, 195

—P—

Padilla, Guillermo, 53
Pagano, Jerry, 219
Paleobiogeography, 169-171
Paleocene age, 174
Paleoclimatology, 77, 171-172, 177-178, 205
Paleoecology, 168, 240
Paleoenvironment, 288
Paleogene age, 169, 176, 178
Paleogeography, 293
Paleolimnadia spp., 240
Paleolimnadiopsis sp., 240
Paleomagnetism, 82, 174, 273, 287, 288
Paleontology, 84, 193, 222-225, 272, 275, 294
(*See also*: Micropaleontology.)
Paleotemperature, 177-178
Paleozoic age, 82, 193, 293
Palladium, 249
Palmer, Nathaniel, 211, 212
Palmer Station, 14, 21, 24, 55, 57, 104, 111, 114-115, 207, 220-222, 226
aquarium, 56
climate summary, 294, inside back cover of each issue
contractor support activity, 42, 110
fuel delivery, 110
logistics support, 204
research, *27*-29, 54, 63-64, 102-103, 120, 193-194
supplied, 110
USARP activities (1976-1977), 194
wintering personnel listed (1976), 205
Palynology, 240
Palynomorphs, 82-84, 167
Panama, 110, 115
Pantellerite, 263
Pantonewra sp., 17, 18
Parachaenichthys sp., 51
Parachutes, 99-100
Paradexamine sp., 25
Paradise Bay, 102
Paradise Harbor, 19
Paraglycerites sp., 167
Paralomis sp., 185
Paraperieculoides sp., 25
Paris, University of (France), 231
Park, C.G., 126, 128
Park, J., 273
Parker, Bruce C., 90, 190, 204, 285
Parkinson, Alan, 68
Parmelee, David F., 54, 111, 194, 285
Parodi, Roberto, 184
Particle precipitation, 137, 144-149, 201
Particulates, 17, 201, 202, 228-229
Paschal, E., 123
Paskausky, David F., 156
Patellina sp., 221, 222
Patinagera sp., 14, 15, 17, 26, 28, 54, 57, 224, 225
Patla, Susan, 156
Patterson, Steven L., 154, 158, 159
Pebbles, 50, 85, 221, 225, 235
Pecten Formation, 205
Pegmatite, 241, 242
Pelagic organisms, 168
Pelecypods, 168
Penguins, 10, 111
Adélie, 57, *63-66*, 194, 196, *207*
airlift, 66-67
chinstrap, *63-65*, 194
emperor, 67, 188, 194, 196
gentoo, 57, *63-65*, 194
king, 194
Pennell Bank, 104, 232
Penney, Richard, 66
Pennsylvania State University, 274
Pensacola Mountains, 197, *294*
Permafrost, 89, 90, 191, 275-276, 282, 285-284
Permanent South Pacific Commission, 12
Perse, Earl, 213
Peter I Island, 267-269
Petermann Island, 19
Peterson, Norman E., Jr., 201
Petrel Station (Argentina), 152
Petrels, 194
Petrography, 79, 253, 258, 269
Petrology—*see* Rocks
Péwé, Troy L., *282*, 283
Pharurus sp., 15
Phalarope, 222
Phalaropus sp., 226
Phanerozoic age, 293
Phenocrysts, 255, 261, 265, 268
Phaline sp., 25
Phonolites, 263, 265, 274
Phosphate, 72, 75, 156
Phosphorus, 18, 190, 191, 249
Photography, 200, 202
all-sky, 201
ocean bottom, 199, 292
underwater, 220
satellite, 201
(*See also*: Aerial photography.)
Photometry, 201
Photosynthesis, 17-18, 190
Phototheodolite, 96-97
Phyllite, 241, 242
Phyllogigas sp., 16, 17, 28
Phyllophora sp., 17
Physaster sp., 187
Physiography, 231
Phytobenthos, 17
Phytoplankton, 25, 33-36, 49, 56, 58-59, 184-186, 190
Picconiella sp., 17, 18
Pierce, J.W., 29, 228, 230
Piezometers, 96
Pigeonite, 255
Pillsbury, R. Dale, 154, 155
Piloto Pardo (Chile), *115*
Pinnipeds, 188, 194
Pionerskaya Station (U.S.S.R.), 37
Pittman, Richard V., 156
Pittsburgh, University of, 203
Plagioclase, 244, 246, 247, 254, 255, 259, 261, 267-268
Planispirina sp., 81
Plankton, 23, 35, 81, 85, 86, 168, 172, 173-174, 188, 190, 192, 193-194, 200
(*See also*: Nannoplankton; Phytoplankton; Zooplankton.)
Plants, 12-20, 84, 168
Plasmapause, *121*, 126-128, 131-132, 137-138, 139, 201
Plateau Station, 144
Platinum, 230
Pleistocene age, 72, 79, 81, 82, 84, 86, 273, 276
Pleuragramma sp., 184
Plio-Pleistocene age, 79
Pliocene age, 81, 86, 163, 171-172, 173, 174, 269, 273
Plocamium sp., 17, *18*
Plutons, *257*-259, 260
PM-3A nuclear power plant, 80, 109
Pogonophryne sp., 184
Point Reyes Bird Observatory, 66, 189, 190, 194
Poland, 9, 110, 115
Polar cap absorption (PCA), 136-137
Polar Experiment (POLEX), 285, 284
Polar Front Zone, 72, 154-159
Polar motion research, 98
Polar Oceans Conference, 10
Polar Research Board—*see* National Academy of Sciences
Polarimeter, 99, 201, 286
Pollen, 30, 82, 240
Pollution, 47, 129, 186-187, 196, 198, 200
(*See also*: Contamination.)
Polychaetes, 15, 16, 17, 24, 25, 59, 168, 192, 292
Polymastia sp., 59
Pomerantz, Martin A., 140, 195
Pond, freshwater, 226
Pond, Mount, 162
Pontogeneiella sp., 25
Porania sp., 17, 51
Poriferans, 15
Port Foster, 162-163
Port Lyttelton, N.Z., 105
Port of Beaumont (Ronne Expedition ship), 216, 217-218
Porter, S.C., 275
Portugal, 186
Possession Island, 185
Post Office, U.S. (first in Antarctica), 217
Potassium, 148, 249, *251*, 253, 261
(*See also*: Age determination.)
Powell, R.D., 275
Prebble Formation, 246
Precambrian age, 260-263, 293
Precipitation measurements, 200, inside back cover of each issue
Predation, 18, 26, 51-52, 58-59, 111, 224
Prefabricated buildings, 212
Pressure measurements, 116, 152, *154*-156, 202, inside back cover of each issue
Primary productivity, 17, 48, 184-186, 194, 197
Primero de Mayo (Argentina), 213-214
Prince Charles Mountains, *240*-242
Prince Edward Island, 184-186
Prionodraco sp., 184
Private John R. Towle, USNS, 104-105, 109
Profesor Siedlecki (Poland), 9, *115*

Professor Vize (U.S.S.R.), 156
Promachocrinus sp., 51, 52
Proteins, 54
Proteonina sp., 222
Protons, 195
Psammosphaera sp., 29, 221
Psilaster sp., 19, 51, 184
Pseudoparrella sp., 221, 222
Pterotheca sp., 176
Puerto Montt, Chile, 228
Pullenia sp., 221, 222
Pump, submergible, 31
Punta Arenas, Chile, 98, 104, 110, 155, 156, 158, 159, 215, 216
Purdy, T., 30
Pycnoclines, 185, 229
Pycnogonids, 17
Pygocelis spp., 57, 63-66
Pyranometers, 153
Pyrgo sp., 29, 221, 222
Pyrgupyxis spp., 176
Pyroclasts, 163, 261
Pyroxene, 244, *255*-256
Pyycodrys sp., 17

—Q—

Quartz, 30, 32, 246, 247, 250, *251*, 252, 259, 261, 263
Quartz diorite, 257-258
Quartz monzonite, 257-258
Quartz trachyte, 265
Quartzite, 241, 242
Quaternary age, 166, 173, 174, 177-178, 241, 269
Queen Alexandra Range, 240, 254
Queen Maud Mountains, 242-248
Queen's University (Canada), 257
Quinqueloculina sp., 221, 222

—R—

Racovitzia sp., 184
Radar, 194, 195, 199, 201, 202
(*See also*: Lidar studies.)
Radiation, 62-64, 99, 149-151, 152-153, 190-191, 202
(*See also*: Cosmic radiation.)
Radio-echo soundings, 37, *149*-144, 159, 199, 202
Radioactivity, 204
Radiocarbon, 200
Radioisotopes, 30
Radiolarians, 82, 84, 167, 171-172, 173, 275, 276
Radiometry, 276
Radiosondes, 201
Radok, U., 36
Ramello, Omar, 52
Rand, John H., 95, 198
Rankin, Peter C., 265
Rare-earth, 263-267
Rasmussen, M., 75
Rasmussen, R.A., 47, 202
Rat tails, 50
Rawinsonde measurements, 99, 144
Rayner, E.R., 273
Recent age, 72, 79, 163, 165, 175, 177, 273
Reconnaissance, aerial, 197, 204
Reheim, H., 184
Reichle, R.A., 61
Reilly, Gerald E., Jr., 42
Remote-sensing research, 101, 284
Renner, Geoff, 97
Rennick Glacier, 277-*278*
Reophax sp., 29, 81, 221
Rhizopods, 14
Rhode Island, University of, 70, 71, 73, 165, 171, 173, 177
Rhodophyta, 192
Rhombohedral crystals, *250*-251
Rhone Glacier, 96
Rhyodacite, *260*, *261*, *262*
Rhyolite, 263
Riabova, E.I., 233
Rice University, 286
Richter, Walter, 75
Rig Mate (Norway), *114*, 115
Rio Gallegos, Argentina, 29
Rio Yelcho, 229
Riometers, 136-137, 195
Riordan, Allen J., 149
Riserbrough, Robert W., 47, 198, 226
RISP—*see* Project *under* Ross Ice Shelf
Risso, Julio A., 49, 52
Robbins, M.F., 132
Robert Conrad, 175
Roberval, Quebec, 119-122, 125, 131, 136, 137-138, 195, 201
Robin, Gordon deQ., 36
Robinson, Edwin S., 159, 199, 202
Rockets, 119, 201
Rocks, 193, 197, 223, 274, 293
basement, 75, 79, 241, 246-248
igneous, 260-263, 267-269
mafic, 242, 275
metamorphic, 241-242
metasedimentary, 75, 242
metavolcanic, 75
plutonic, 257-258
radioactive, 204
sedimentary, 79, 242, 274
sialic, 163
ultramafic, 75
volcanic, 34, 195, 246-248, 257-259, *260*-267, 271, 273-274, 294
(*See also*: Age determination; Boulders; Clasts; Pebbles; Petrography.)
Ronne, Edith, 216
Ronne, Finn, 212, 213, 215-218, 219
Ronne Antarctic Research Expedition (1947-1948), 211
hut, 217, 218
wintering personnel listed, 215
Rookery, 66
Roosevelt, Franklin D., 212
Roosevelt Island, 95, 97, 276, 279
USARP activities (1976-1977), 198, 200
Root, Dennis, 155
Roots, E. Fred, *282*
Rosalina sp., 14, 29, 220, 221
Rosen, J.M., 99, 195
Rosenberg, T.J., 157
Ross Bank, 232
Ross Ice Sheet, 80
Ross Ice Shelf, 77, 84, 86, 109, 163, 195, 203, 212, 219, 232, 258, 275
Geophysical and Glaciological Survey, 198
logistics support, 204
Project, 95, 97-98, 159-161, 198-200, 275, 284, cover of September issue
research, 47, 58, 59, 276, 279-281
USARP activities (1976-1977), 195, 198-200
visiting scientist program, 204
Ross Island, 2, 34, 58, 62, 66, 79, 80, 81, 89, 104, 149, 189-190, 196, 232, 233, 238, 239, 269, 270, 271, 274, 279, 281
(*See also*: Crozier, Cape; Erebus, Mount; Hut Point Peninsula.)
Ross Sea, 35, 40, 59, 88, 104, 144, 194, 198, 200, 211, 212, 235, 287
DSDP activity, 84, 85, 272
research, 58, 77, 159-*161*, 163-165, 189-190, 231-233
USARP activities (1976-1977), 196, 197, 199, 205
water types, 238
Ross Sea Shelf Water, 238
Rotera, 168
Rowe, Alan, 75
Rowley, Peter D., 257
Royal Astronomical Society (U.K.), 41
Royal Society Range, 96
Royds, Cape, 2, 35, 80, 81, 189
research, 34
Rubidium, 163-*164*, 253
Rubin, Mount, 241
Rude, Jeffrey D., 106
Rugo, Robert D., Jr., 90, 92
Ruker, Mount, 242
Rumboll, M.A.E., 187
Runway, 79, 108, 215, 283
(*See also*: Skiway.)
Russian translations ended, 206
Rutford, Robert H., 107, 112, *282*, 283
Rymill, John, 212
Rymill, Mount, 241-242

—S—

Saccammina sp., 222
Sackett, William, 156
Sadko Trough, 284
Saint Paul Island, 186
Salicornia sp., 187
Salinity, 31, 49, 77, 79, 155, 159, 194, 197, 199, 229, 237, *238*, 252, 273, 275-276
Salinity-temperature-depth measurements, 72, 75, 155-156
Salinometer, 31, 229
Salmon Glacier, 233, 234
Salt, 229-230, 273, 275
SANAE Station (South Africa), 120, 132-136
Sand, 19, 51, 72, 79, 81, 86, 163-165, 225, 273
(*See also*: Sediments.)
Sandstone, 85, 86, 93-94, 193, 223, 240, 245, 249, 250, 259, 273
Sandy Glacier, 96
Sanjurjo, Pedro, 184
Santonian age, 170
Sarcodina sp., 17
Satellites, 47, 155, 195, 197, 279, 284
ATS-3, 125, 156, 159
DMSP, 141-142
doppler, 198
ERTS, 241
ESRO-4, 127
ISIS-II, 127
Electrodynamics Explorer, 125
Landsat, 97
navigational, 98
Nimbus-6, 101
photography, 141-*142*, 201
Sun-Earth Explorer, 125
Sayala, D., 50
Sayward, J., 252
Scallop Hill Formation, 86
SCAR—*see* Scientific Committee on Antarctic Research
Scavengers, 19, 58-59
Sceptronesis sp., 176
Schenborn, D., 55
Scherger, Mount, 242
Schmeltkopf, A.L., 99
Schmitt, James, 75
Schmitz, Joyce, 156
Schneider, David, 98
Schoonmaker, James W., Jr., 97
Schopf, James M., 116
Schuster, R., 61
Schweickert, Richard, 75
Schwerdtfeger, Peter, 199
Schwerdtfeger, Werner, 47, 144, 152, 202
Scientific Committee on Antarctic Research, 2, 12, 281, 284-285, 295
14th Meeting, 282, 283
working groups, 10-11, 283, 294
Scientific Committee on Oceanic Research, 10, 12, 281-282, 285
Scintillations, 98, 195
Scolecite, 258-259
Scolecodonts, 167, 168
SCOR—*see* Scientific Committee on Oceanic Research
Scotia Arc, 72, 182, 222, 294
research, 19, 75, 93-94
USARP activities (1976-1977), 195
Scotia Basin, 72
Scotia Ridge, 48, 193, 228
Scotia Sea, 48, 153, 154-159
Scott, Kevin M., 95
Scott, L.V., 68
Scott Base (N.Z.), 101, 136, 190
Scott Polar Research Institute, 11
Scripps Institution of Oceanography, 49, 58, 59, 60, 66, 67, 73, 75, 78, 104, 106, 156, 194, 196, 199, 200
Scripta Technica, Inc., 206
Sea cliffs, 222-225
Sea ice, 84, 104, 110, 195, 197, 200, 235-239
symposium, 116
Sea lion, 188
Sea urchins, 14, 15, 16, 24, 26, 28
Sea World, Inc., 66
Sea-level changes, 233-235
Seabees, 108
Seals, 8, 9, 10, 108, 188, 218
crabeater, 61, 110, 194
elephant, *189*-190
fur, 194
leopard, 61
Ross, 61, 194
Weddell, 61-62, 111, 194, 196, cover of March issue
Seaweeds, 18-19
Sediments, 17, 19, 25, 29-33, 35, 70-73, 78, 79-80, 84, 85, 88, 90, 93-94, 162-182, 193, 198, 203, 220, 221, 223, 228-231, 273, 275, 276, 287-289
(*See also*: Dry Valley Drilling Project.)
Seelig, Walter, 40
Seely, N.T., 119
Seismology, 70-73, 78, 80, 195, 198, 270, 276
Sellin, Theodore, 1, *282*, 283
Sentinel Range, 98
Seribiculum sp., 169
Serolis sp., 17, 19, 224
Services and support
NSF award of funds, 43, 116, 208, 295
Seymour Island, 98, 222-225
Shackleton, Ernest H., 33-35
Shackleton Glacier, *243*, *246*
Shackleton Ice Shelf, 235
Shale, 93-94
Sharp, Craig, 50, 52, 292
Shaw, Glenn E., 151, 202
Shaw, Richard F., 50
Sheathbills, 194
Shells, 221
Shepley, Susan, 288
Ship operations, 104-105
(*See also under* names of individual ships.)
Shortcut Island, 111
Showers, William, 55, 58, 219
Shrimp, 54
Siedlecki—*see Professor Siedlecki*
Siegel, F.R., 29, 228, 230
Sievers, Hellmuth A., 158, 159
Signy Island, 19
Silica, 72, 170
(*See also*: Sand.)
Silicate, 75, 156, 159, 241, 252
Silicoflagellates, 35, 81, 82, 84, 167, 173, 174, 178-182, 275, 276, 288
Silicon, 148, 149, 249, 251
Silicon dioxide, 250
Sillars, Katherine J., 78
Sillimanite, 242
Silt, 72, 77, 79, 162, 163-165, 223, 248
(*See also*: Sediments.)
Siltstone, 259, 260
Silva, P.C., 24
Silver, 250
Simon, Saint-claire B., 187
Sims, Lewis S., 215
Siniff, D.B., 11, 61, 194, 196
Siple Coast, 276
Siple Station, 98
closed for season, 39-40, 107, 110
contractor support activity, 42, 110
first flight of season, 107
research, 120-*125*, *126*-128, 131-138
supplied, 107
USARP activities (1976-1977), 195, 200-201
VLF transmitter, 119-120
Sipunculans, 17
Sites of Special Scientific Interest, 2, 3-4
Skiway, 39, 107, 109
Skuas, 57, 58, 111, 194, 196
Sky cover measurements, 153, 195, 207, in-

inside back cover of each issue
Sladen, W.J.L., 66
Slate, 241, 242, 259
Sledges, 34, 98, 213
Sleds, 54, 108
Slichter, L.B., 203
Smiley, Vern N., 145, 202
Smith, C., 93, 94
Smith, Cape, 75
Smith Island, 75, *76*
Smithsonian Institution, 34, 35, 187, 189, 293
National Museum of Natural History, 29, 226, 228, 230, 292
Oceanographic Sorting Center, 49, 50, 52, 182, 192, 292
Smythe, W., 203
Snow cover, 197
Snow studies, 80, 283, 284
Snowfall measurements, inside back cover of each issue
Sobey, Edwin, 239
Society of Natural History, San Diego, 194
Sodium, 148, 249
Soil studies, 243, 248-252
Solenogartres, 192
Sollas Glacier, 190-191
Sollasites sp., 169
Soloviev, D.S., 242
Sonar, 53, 56
Sorensen, Jon, 98
South Africa, Union of, 9, 11, 186
South Georgia Basin, 70-73
South Georgia Island, 48
research, 19, 49-53, 182
USARP activities (1976-1977), 194
South Orkney Islands, 75, 182
research, 182-184
USARP activities (1976-1977), 193
South Pole, 98, 111
(*See also*: Amundsen-Scott South Pole Station.)
South River, 77
South Sandwich Islands, 48-53, 71-73, 182-184
South Shetland Islands, 15, 57, 94-95, 162-163
index map, *76*
research, 75
Southampton, University of (U.K.), 119, 137
Southeast Indian Ridge, 165, 166
Southern Methodist University, 282
Southern Ocean, 283, 288, 292
Soviet Antarctic Expedition, 204, 240-242
Information Bulletin, 206
Spaerotylus sp., 59
Specially Protected Areas, 2, 3, 4
Spectrometer, 148
Spectrometry, 204
Spectroscopy, 145-148
Spherulites, 246-248
Spiroplectammina sp., 222
Spirorbis sp., 25
Spitzbergen, 284
Splettstoesser, John F., 95, 112
Sponges, 15, 16, 19, 25, 29, 58, 59, 84, 196, 220, 221, 234
Spores, 82, 240
Squid, 8, *9*
Stanford University, 119, 120, 122, 123, 126, 128, 137, 200
Starfish, 15, 16
Stasny, James, 156
State, U.S. Department of, 1, 212, 283
Staten Island, 187
Stations
automated weather, 37
benthic, 186-*187*
bathythermograph, *158*-159
camera, 292
doppler, 98
geoceiver, *294*
hydrographic, 73-75, 155-156
(*See also*: Salinity-temperature-depth, *below*.)
ice, 98
oceanographic, 77, 156
piston coring, 104
salinity-temperature-depth, 72, 155-156
very low frequency, 118-150
Staurolite, 241, 242
Stauronoa sp., 234
STD—*see* Salinity-temperature-depth measurements
Sterechinus sp., 14, 15, 16, 19, 24, *25*, 26, 28
Stever, H. Guyford, 41, 112
Stilbite, 259
Still, Robert, 155
Stinear, Mount, 241-242
Stockdale, J.B., 105
Stockton, W., 19
Stockwell, D., 184
Stonington Island, 211-219
map, *213*
(*See also*: East Base.)
Storm Peak, 239-240, 253-256
Storm sudden commencement, 139
Storms, 35, 72, 105-106, 107, 108, 129, 130, 201
(*See also*: Substorms.)
Strain studies, 57, 95, 198
Strait of Magellan, 93, 186-187
Stratigraphy, 37, 77, 82, 85, 193, 197, 199, 200, 222-225, 241, 253, 273, 275, 277, 278, 295
(*See also*: Biostratigraphy.)
Stratosphere, 99-101
Strontium, 163-*164*, 253, 256, 263, 274
(*See also*: Age determination.)
Stucklen, J.S., 274
Stuiver, Minze, 86, 275, 275
Stump, Edmund, 246
Substorms, 41, 138, 139, 142
Subtropical Convergence, 173, 185
Suess Glacier, 88, 97
Sulfate, 276
Sulfur, 80, 148, 249, 250
Sun, S.-S., 274
Supply activities, 104-105, 106, 110, 115
Support activities—*see* Services and support
Surface reflection measurements, 201-202
Swartz, Richard C., 196
Sweeny, Timothy, 39
Swyers, Harry, 108
Szelag, J., 73

—T—

Tabarin, Operation, 214
Takahe, Mount, 269
Talcahuano, Chile, 110
Talkington, Raymond W., 242
Tanker, *40*, 104-105
Tanks, Army, 213, *217*, *218*
Tanks, seawater, 56
Tape recorder, 131, 136, 199
Targett, Timothy E., 50, 55, 182
Tasch, Paul, 239
Tasch Station, 2, 240
Tasmania, 239-240, 255
Taxonomy, 49, 51, 169, 240
Taylor, William F., 182
Taylor Formation, 246-248
Taylor Glacier, 96, 97, 275
Taylor Nunatak, 247
Taylor Valley, 77, 96, 97, 190-191, 276
DVDP activity, 81, 82-86, 272-273, 275
research, 86-88
USARP activities (1976-1977), 205, 204
Tectonics, 72, 75, 86, 93-94, 193, 254, 276, 295
Telefon Ridge, 162
Telemeter, 99
Television, 200
Temnikow, Nicolas K., 19, 24, 26, 27, 28, 219, 220
Temperatures, 39, 49, 72, *74*-75, 127, *154*-156, 194, 199, 202
Adelaide Island, 152
air, 150
Amundsen-Scott South Pole Station, 116, 207, 294, inside back cover of each issue
Atlantic Peninsula, *152*
dome C, 107
DVDP drillholes, 79, 88-89
geographic South Pole, 98
ice, 108
Matienzo Station, 152
McMurdo Station, 294, inside back cover of each issue
ocean surface, 77
Orcadas Station, 152
Palmer Station, 294, inside back cover of each issue
Petrel Station, 152
water, 31, 53, 199, *236*, *237*, 238
(*See also*: Conductivity-temperature-depth measurements; Paleotemperature; Salinity- temperature-depth measurements.)
Tents, 212
Terns, 111, 194
Terra Firma Island, 24, 218
Terror Gulf—*see* Erebus and Terror Gulf
Tertiary age, 72, 73, 169, 222, 259
Texas A&M University, 8, 33, 34, 47, 49, 152, 154, 156, 158, 159, 184, 197
Texas Tech University, 197
Texas, University of, 195
Textularia sp., 221
Thalassosora sp., 35
The Tusk, cover of December issue
Thenardite, 273
Theodolite, 72, 98
Thermograph, 90
Thermometers, 31, 236, 237
Thiel Earth Sciences Laboratory—*see under* McMurdo Station
Thiel Mountains, *260*-263
Tholeiite, 242-245, 253, 255, 256
Thomas, Robert H., 47, 95, 198, 279
Thomas G. Thompson, R/V, 154-158, 159
Thompson, Michael, 193
Thomson, Robert B., 272
Thorium, 174, 204, 263, 273
Thule, Greenland, 138-139
Thuronyi, Geza T., 292
Tides, 159-*161*, 199
Tierra del Fuego, Argentina, 19, 187, 228
Till, 233, 273, 275, 278
Tingey, R.J., 242
Titanium, 249, 256
Titanium oxide, 261
Todd, Frank S., 66, 196
Tokyo, University of, 119, 137
Tolypammina sp., 29, 220, 221
Tomo, Aldo P., 11, 53, 104
Tonalite, 259
Toole, J., 158
Topa, Pascual, 53
Torgersen Island, 57, *207*
Torii, Tetsuya, 272, 273
Tourism, 5, 115, 218
Towle—*see* Private John R. Towle
Townsend, William C., 50, 52
Town, 50, 54, 188, 194
Trace elements, 47, 194, 200, 202, 274
Trachyandesite, 267-268
Trachybasalt, 274
Trachymeis sp., 35
Trachyte, 263, 271
Trackmaster, 62
Tractors, 78, 108, 213, *218*
Trans-Alaska Pipeline, 283, 284
Transantarctic Mountains, 79, 86, 151, 242-245, 253, 262, 278, 279, cover of December issue
fossils, 240
USARP activities (1976-1977), 197
Translations—*see* Russian translations
Transportation, 4, 94, 105, 106, 107, 110
Transportation, U.S. Department of, 41, 47
Tranter, David, 11
Traps, fish, 54
Travel, international
NSF award of funds, 44, 116, 208, 295
Traverses, 36-37, 97-98, 108, 110, 204, 213
Trawlers, 9
Trawls, 48-53, 54, 55-58, *183*, 292
Treasury, U.S. Department of the, 212
Trematomus spp., 51, 59, 184
Trepassy (ship), 214, 215
Treshnikov, A.F., 204
Treves, Samuel B., 78, 195, 270, 271, 272, 273, 274
Triassic age, 240
Tricerastpyris sp., 172
Trifarina sp., 81, 222
Trilogy Glaciation, 252
Trismus (Belgium), *113*
Tritium, 75, 200, 205, 226-228
Trochammina spp., 29, 221, 222
Tropopause, 100
Troposphere, 129, 145-148, 202
Truesdale, Robert, 77
Tucker, Arnold J., 195
Tuff, 34, 271, 274
Tunicates, 16, 17, 19, 220, 221
Turonian age, 170
Turpening, Roger M., 195
Turritellella sp., 29, 220, 221
Tusk, The, cover of December issue

—U—

Ugolini, Fiorenzo C., 248, 249, 275
Ulothrix sp., 28
Ultima Esperanza, 93-94
Ultra low frequency studies, 132-136, 201
Union of Soviet Socialist Republics, 9, 11, 36, 37, 128
Arctic and Antarctic Scientific Research Institute, 138, 204
visiting scientist, 204
(*See also*: Moscow State University; Soviet Antarctic Expedition.)
United Kingdom, 2, 11, 37, 75, 110, 115, 214
Science Research Council, 103
(*See also*: Argentine Islands; British Antarctic Expedition; British Antarctic Survey; Falkland Islands Dependencies Survey.)
United Nations, 10, 12
Untersteiner, Norbert, *282*, 283
Upper atmosphere physics, 40, 201, 283
NSF award of funds, 43, 113, 208, 296
(*See also*: Atmospheric research.)
Upper Jurassic Latady Formation, 259
Upper Wright Glacier, 90
Uranium, 204, 263, 273
Urbanekuncus sp., 167
Urospora sp., 28
USARP—*see* Antarctic Research Program, U.S.
Ushuaia, Argentina, 29, 110, 153, 187, 228
Uvigerina sp., 166, 222

—V—

Valparaiso, Chile, 212, 216
Van Reeth, Eugene W., 112
Vanda, Lake, 90, 249-252
contamination, 91-92
Vanda Station, 149-*150*
Vanney, J.R., 231
Vaugelade, J., 36
Vehicles, tracked, 62, 78, 108, 213, 216, *217*, *218*, 296
Verna, 175
Vennum, Walter R., 258
Vermiculite, 249
Very high frequency studies, 199, 201
Very low frequency studies, 118-*125*, 126-128, 136-138, 200-201
Veterans Administration, U.S., 70
Victoria Land, 232, 240, 245, 248, 253, 272
research, 96-97, 149-151, 277-279
sketch map, *250*
USARP activities (1976-1977), 195, 203-204
Victoria University (N.Z.), 78, 269, 270, 272, 273, 274

Victoria Valley, 80
Vida, Lake, 90, 92
Vieira, C., 228
Viese—see Professor Viese
Virginia Polytechnic Institute and State University, 90, 91, 159, 190, 199, 204
Volcanics, 50, 80, 100, 148, 162, 263-267, 269-272, 274, 275, 294
(*See also*: Lava.)
Voorhis, A., 158
Vostok Station (U.S.S.R.), 37, 107
research, *128-129*, 138-140
U.S. exchange scientist, 204, 205
wintering personnel listed (1976), 205
Vucetich, C.G., 273
VXE-6—*see* Antarctic Development Squadron Six

—W—

Wade, F. Alton, 197
Waikato, University of (N.Z.), 273
Walcott Glacier, 96
Wales Stream, 87, 88
Walraven, R.L., 285
Walther Herwig (West Germany), 9
War, U.S. Department of, 212
Warburton, Joseph A., 145, 200, 202
Warnke, Detlef A., 70, 73
Washburn, A. Lincoln, 275
Washington State University, 47, 202
Washington, University of, 86, 154, 155, 159, 248, 249, 275, 275
Waste, 2, 6, 7, 109, 111
Water column productivity measurements, 58, 199, 200, 257
(*See also*: Oceanography.)
Water desalinization plant, 108-109
Water study, 37, 236
(*See also*: Conductivity-temperature-depth measurements; Salinity-temperature-depth measurements.)
Waterfowl, 226
Watkins Island, 213
Watson, Daniel J., 58
Watson, George E., 226
Wave-particle research, 122-123, 138, 280-281
(*See also*: Particle precipitation.)
Wave velocity research, 198
Wave-wave research, 122-123
Wearn, Richard, 155
Weasels, 216
Weather conditions, 71-72, 104, 105-106, 168
Weathering, 242-245, 248-249, 278
Webb, D.C., 132
Webb, Peter N., 81, 82, 85, 200, 272
Webbonella sp., 222
Weber, H.-P., 73
Weddell Sea, 9, 104, 144, 182, 216, 222, 225, 255
coastline mapped, 213
research, 73-75, 226-228, 288
temperatures, 152
USARP activities (1976-1977), 197
Weddell Sea Confluence, 182
Wellington, N.Z., 104
Weeks, Wilford F., *282*, 285
Weller, Gunter E., *282*
Wellington, N.Z., 104
Werner Mountains, 259
West Antarctic Ice Sheet, 197, 198, 269, 276
West Antarctica, 197, 267
West Base, 212
West Germany, 9
West Virginia University, 273
Westbrook, Darrel E., Jr., 207
Whales, 8, 9, 10, 110, 187-189, 194
Wheeler, Richard, 288
Whistler studies, 119-120, 121, 122-*123*, *124*-125, 126-128, 131-132, 201
(*See also*: Ultra low frequency studies; Very high frequency studies; Very low frequency studies.)
Whitcomb, Bruce M., 145
White Island, 58, 59, 86
Whittemore, H., 158
Whitworth, Thomas, III, 156
Wichita State University, 239
Wilkes abyssal plain, 233
Willett, Richard, 282
Williams, Douglas, 177
Williams, P.M., 200
Williams, Richard T., 159
Williams Field, 109, 110
Wilson, A.T., 273
Wilson, Alison, 219
Wilson, Charles R., 195
Wilson, Robert, 98
Wilson Piedmont Glacier, 96
Wiman, Cape, 223
Wind, Frank H., 167, 169
Windless Bight, 195
Windmill, Operation, 217-218
Winds, 71-72, 104, 105-106, 150, 218, inside back cover of each issue
(*See also*: Rawinsonde measurements.)
"Winfly"—*see under* Flights
Winn, R.D., Jr., 93, 94
Winter Harbour, 34
Winter Quarters Bay, 104, 109
Wintering personnel, 33, 98, 99, 108, 110, 128-129, 196-197, 201-202, 205
listed (1976), 204-205
Stonington Island, listed, 215
Wisconsin, University of, 47, 68, 93, 144, 149, 152, 196, 198, 202, 203, 206, 267, 276, 282, 294
Wise, Sherwood W., Jr., 167, 169, 287
Woman in Antarctica, first, 216
Woods Hole Oceanographic Institution, 157, 158, 186
World Data Center-A, 284
Worms, 14, 24, 192, 292
Wrenn, J.H., 82, 85, 272
Wright Valley, 86, 249, 250
DVDP activity, 273
research, 80, 90, 248-249
Wyoming, University of, 79, 88, 99, 195

—X—

X-rays, 51, 52, 60, 157, 198, 148, 149, 229, 250, 249, 259
Xenoliths, 261

—Y—

Yamagata, N., 275
Yang, I., 273
Yates, Robert, 75
Yeast, 18, 190
Yelcho, AGS, 154, 157, 158-159
Yogi, T., 203
Yoldia sp., 19, 25, 28, 224, 225
Young, Albert, 275

—Z—

Zapol, Warren M., 196
Zavodovski Island, 50
Zeller, Edward J., 204
Zenk, Walter, 157, 158
Zeolite, 258-*259*
Zinc, 230-231
Zinsmeister, William J., 222
Zoarcidae, 50, 51, 55
Zoller, William, 47
Zonation, 14-19, 288
Zoogeography, 49, 51
Zooplankton, 48-49, 55, 292
Zuleta, Norberto, 156, 158
Zumberge, James H., 281, *282*, 285
Zumwalt, Gary, 26, 222